



# Metcalf Energy Center

July 15, 2003

Mr. Steve Munro, Compliance Project Manager  
California Energy Commission  
1516 9<sup>th</sup> Street, MS 2000  
Sacramento, CA 95814

**Subject: Metcalf Energy Center 99-AFC-3**  
**Monthly Compliance Report #21, June 1 – June 30, 2003**

Dear Mr. Munro:

In accordance with the CEC Commission Decision, enclosed please find a Monthly Compliance Report (Report) and Compliance Matrix for the Metcalf Energy Center. This report is for the period beginning June 1 – June 30, 2003.

The Report lists those Conditions of Certification that require submittal with the Monthly Compliance Report as stated in the Commission Decision. These submittals are listed in the Report and are attached.

A copy of this report is also being submitted to the library nearest the project site, Santa Teresa Branch Library, as required in the Commission Decision.

If you have any questions please call me at (408) 463-6001.

Sincerely,

*Kristen C. O'Kane*

Kristen O'Kane  
Environmental Compliance Manager  
METCALF ENERGY CENTER

Enclosures

cc: Michael Argentine, Calpine  
Nick LaPorte, Calpine  
Sam McIntosh, Calpine  
Document Control, Calpine  
Don Wimberly, Willdan

**Metcalf Energy Center  
99-AFC-2**

**Monthly Compliance Report #21  
June 1 – June 30, 2003**

**1. Project construction status**

**Pile Concrete:** Foundation Constructors continued to place concrete in the steel pipe pile. All piles will be reinforced with rebar and concrete by early July. The concrete strength problem that was reported last month has been resolved by the use of a revised mix design yielding a concrete compressive strength at 28 days of at least 5000 psi.

**Circulation Water Pipe:** The installation of the circulation water pipe has been completed including installation of cathodic protection, patching of the interior lining, backfilling of the pipe and removal of the sheet pile system.

**Excavation:** No major excavation was completed during the month.

**Material Preservation:** The combustion turbines were inspected for long-term preservation since they have been onsite for one year. The combustion turbine engines where inspected by use of a boroscope and other visual inspection methods. The desiccant bags where changed and dehumidifiers where installed to control the humidity levels within the engines to combat oxidization of the internals.

**Engineering:** The engineering progress is approximately 91% complete. Engineering continues to support construction and preparation of subcontract packaging needs.

1) The following documents were issued by Burns and Roe Enterprises, Inc.:

- Issued the following documents to CBO for approval:
  - Piles submittal for gas compressor piles
  - Piles submittal for ammonia storage tank piles
- Issued for Review
  - Specialties, Lube Oil Conditioner specifications
- Issued the following for construction / use:
  - Underground conduit / Duct bank drawings
  - Tray plans
  - STG pedestal conduits drawing
  - DCS I/O list, official 100%
  - Issued Closed Cooling Water and Service Water Piping Isometrics

2) Engineering Tasks:

- Burns and Roe continued to support construction effort
- Continued to update P&IDs
- Continued development of stress analysis

- Continued development of line, piping specialty and valve lists
- Final stress analysis and checking for Aux Steam, Turbine/Steam drain systems
- Continued development of System Description
- Continued to develop I/O list
- Continued to develop logic diagrams
- Continued to develop above ground conduit design
- Continued to develop equipment foundation design

3) Major Equipment

- The following equipment are in the bid process:
  - a) Fire pump system
  - b) Shop fabricated tanks
  - c) CEMS
  - d) Misc. horizontal pumps
  - e) Closed cooling water heat exchangers
  - f) Compressed air system

**Activities planned for next month**

**Pile Concrete:** Foundation Constructors will complete the installation of concrete within the steel pipe pile.

**Earthwork:** Top Grade Construction will grade the power block area back to the phase I grading plan. The temporary construction facilities area will be graded and prepared for contractor trailers and parking.

**Material Preservation:** Parts of the steam turbine condenser will arrive onsite and be placed in the south laydown area.

**Engineering:**

- **General**
  - Continue to review vendor drawings for CTGs, STG, Condenser, HRSGs, Cooling Tower, major pumps, water treatment system, PDC, Iso-Phase Bus and other equipment
  - Continue to support construction
  - Support Switchyard subcontractor's design development
- **Mechanical**
  - Continue development stress analysis (steam drains & boiler blow down)
  - Continue development Line/Valve/Pipe specialty lists
  - Continue development of 3D equipment and piping models
  - Continue development of equipment list
  - Continue development of System Descriptions
  - Continue development of Isometrics (Aux. Steam, FW, Fuel Gas, Lube Oil, CCW and Service Water)
  - Continue vendor document review

- **Civil /Structural/Architectural**
  - Resolve and respond to CBO comments on pile design submittals on gas compressor and ammonia storage packages.
  - Work on ammonia storage area dike foundation
  - Work on miscellaneous equipment foundation
  - Work on Iso-phase bus duct support foundations
- **Electrical**
  - Continue with Switchyard coordination
  - Review PDC 5kV Switchgear and MCC vendor drawings
  - Continue with Wiring Diagram for GSUs, GCBs, CTGs, Switchyard interface and plant equipment
  - Route the STG cables in ICAMS and prepare above conduit drawings
  - Review next revision of Isolated Phase Bus Duct vendor drawings for CTGs
- **Instrumentation:**
  - Continue to review and comment on P&IDs
  - Continue data inputs to the major lists
  - Continue preparation of logics
  - Continue to review vendor drawings
  - Issue gauges and meters specification for bid
  - Address and resolve all control valve issues and issue Specification 15106 for purchase

#### **MEC Litigation Update**

1. U.S. Ninth Circuit Court of Appeals (Decision 11-21-02)
  - a. On August 10, 2001, the U.S. EPA's Environmental Appeals Board (EAB) rejected petitions filed by STCAG and CARE that had contested the MEC Prevention of Significant Deterioration (PSD) permit. The STCAG subsequently appealed this EAB decision with the U.S. Court of Appeals for the Ninth Circuit in October 2001.
  - b. On November 21, 2002, the Ninth Circuit denied STCAG's petition on all grounds.
  - c. In January 2003 STCAG filed two motions seeking extensions of the deadline for filing a petition for rehearing of the Ninth Circuit's November 2002 order dismissing STCAG's appeal. Calpine, the CEC and BAAQMD all filed papers opposing the STCAG's motions. STCAG subsequently filed its petition for rehearing, which sought rehearing only by the original 3-judge panel that issued the November 2002 order.
  - d. In response to STCAG's motions, the Ninth Circuit during February 2003 extended the deadline for filing STCAG's petition for rehearing and accepted this petition for filing purposes only.
  - e. On March 6, 2003, the Ninth Circuit denied STCAG's petition for rehearing. All appeals before the Ninth Circuit have now been exhausted. Any further appeal can be pursued only by filing a petition

- for writ of certiorari with the U.S. Supreme Court no later than June 4, 2003.
- f. *No appeal was filed with the U.S. Supreme Court of the 9th Circuit's ruling denying Santa Teresa's claims. The 9th Circuit appeal process is now concluded.*
2. STCAG lawsuit against the City: recycled water line (Pending)
- a. STCAG has sued to stop the City's construction of its preferred waterline route.
  - b. Hearing was held 6/20/02. Court rendered a decision in favor of City and Calpine.
  - c. STCAG appeal brief was filed in December. Calpine, the City of San Jose and the Santa Clara Valley Water District all filed responses. The CEC filed an amicus brief. STCAG has now filed a reply. Once a brief is filed, the Court can set the hearing at any time thereafter.
  - d. *No change.*
3. STCAG lawsuit against BAAQMD: San Francisco Superior Court (Pending)
- a. STCAG challenged the Bay Area Air Quality Management District (BAAQMD) issuance of the PSD permit.
    - i. The case was filed on 9/9/02 and served on 9/17/02.
    - ii. Calpine and the BAAQMD are filing Demurrers (motions to dismiss) on or about October 17, 2002.
    - iii. Hearing dates will be set thereafter.
    - iv. BAAQMD late field its request for Demurrer. The parties had a telephonic meet and confer to set dates for filing of STCAG's first amended complaint, which was filed on November 8, 2002. Awaiting court order regarding leave to amend. Expect CEC, BAAQMD, and Calpine Demurrer to first amended complaint to be filed on or about 11-22-02.
    - v. Demurrers were filed by Calpine, the CEC and the BAAQMD on November 26, 2002.
    - vi. December 19, 2002 hearing continued to January 2, 2003.
    - vii. January 2, 2003 hearing: Superior Court issues oral order granting MEC's Demurrer without leave to amend. Order and notice of judgment in favor of MEC, the BAAQMD, and the CEC currently being drafted by BAAQMD.
    - viii. The Proposed Order was sent to the Judge to be signed on February 19, 2003.
    - ix. The Order was signed by the Judge on February 27, 2003 and filed with court on March 3, 2003.
    - x. Possible Appeal to the 1st Dist. Ct. of Appeals
    - xi. Notice of Appeal was filed on April 28, 2003
  - b. First District Court of Appeals

- i. On April 28, 2003, STCAG filed their Notice of Appeal, announcing their intent to file suit challenging the San Francisco Superior Court's decision.
- ii. *On June 11, 2003, the Appeals Court sent a notice that the Reporter's transcript on appeal has been completed and certified to the Court of Appeal. Pursuant to the Notice, we are waiting for a briefing schedule from the Court.*

## **2. Documents required to be submitted with Monthly Compliance Report**

<b>CONDITION</b>	<b>SUMMARY</b>
AQ-48	Summary of monthly activities related to the Fugitive Dust Control Plan is attached.
AQ-52	1 ultra low sulfur diesel fuel receipt attached.
AQ-52	Off-road diesel fired equipment usage lists attached.
BIO-2	Summary of Designated Biologist's written records is attached.
BIO-6	WEAT training presented to 17 on site personnel.
CUL-5	WEAT training presented to 17 on site personnel.
CUL-7	Weekly construction schedules are attached.
CUL-8	Weekly summary reports attached.
PAL-3	WEAT training presented to 17 on site personnel.
PAL-4	A summary report is attached.
LAND-1	There is no update on trail developments.
SOCIO-1	List of planned procurement of materials and hiring outside the local regional area is attached.
SOIL&WATER-1	Gallons of well water used during the month of June =97,471.
GEN-2	Updated drawing list available upon request.
GEN-3	Copy of payment to CBO attached.
TRANS-1	No oversize/overweight permits were obtained in June.
TRANS-2	Copy of Santa Clara County encroachment permit for installation of gas pipeline attached.

## **3. Compliance matrix**

A Compliance Matrix is attached.

## **4. Conditions that have been satisfied during the reporting period (CBO submittals and approvals can be found in #12)**

VIS-3	Submitted response to comments on lighting plan.
GEN-6	Submitted copy of special inspector qualifications.
TRANS- 5&7	Submitted County's comments on linears traffic and parking plan.

**5. Submittal deadlines not met**

- VIS-1: A response to CEC comments on cooling tower color submittal pending. The response will be included in the VIS-9 submittal (below).
- VIS-9: A response to CEC comments on architectural treatment pending. Revisions to visual simulations are in progress. Anticipate submitting a revised treatment plan in July 03.

**6. Approved COC changes**

- A request for amendment was submitted 11/30/01 and approved 12/21/01. The amendment allows for an additional 14 acres of laydown area south of Blanchard Road and west of the railroad tracks.
- An amendment was approved on 8/28/02 to allow the originally certified 10.2-mile recycled water line to be replaced with a 1000-foot lateral interconnection line of the same capacity.

**7. Filings or permits with other agencies**

None.

**8. Projection of project compliance activities for next two months (July - August)**

CONDITION	SUMMARY
AQ-48	Will follow dust mitigation measures.
AQ-49 and 50	Dust will be monitored and activities recorded.
CUL-5	Training will be provided as needed.
CUL-7	Will submit weekly schedule to resource specialists.
CUL-8	Cultural specialist will perform required duties when necessary.
CUL-9	Cultural specialist will perform required duties when necessary.
CUL-19	Will submit cultural resources assessment for potable water line.
BIO-2	Biologist will perform required duties when necessary.
BIO-6	Training will be provided as needed.
PAL-3	Training will be provided as needed.
PAL-4	Paleo specialist will perform required duties when necessary.
VIS-5	Will submit revised Monterey Road landscaping plan. (Final being reviewed by City of San Jose).
VIS-9	Will respond to CEC comments on architectural treatment.
LAND-3	Will provide notification that eastern and southwestern equipment boundaries have been marked and are ready for inspection. Will provide notification that tank foundations are marked and ready for inspection.
SOIL&WATER-2 and 3	Will submit storm water pollution prevention plan and erosion control plan for construction of the sewer line and potable water line.

**9. Additions to on-site compliance file**

- Silt fence inspection logs
- Straw bale and wattle inspection logs
- Erosion and sediment control inspection logs
- Road cleaning logs
- Water truck (dust control) logs
- Biological monitor daily logs
- WEAT training logs
- Daily logs (fugitive dust and public road inspections)
- Ultra low sulfur fuel receipts

**10. Requests to dispose of items in compliance file**

None

**11. Listing of complaints, notices of violations, official warnings, and citations**

Listing of calls received on MEC public information line

None.

**12. List of facility design submittals, comments and approvals to CBO**

Submittal matrix attached. CBO comments received in June are attached.

CBO Approvals:

None.

**CONDITION OF CERTIFICATION AQ-48**  
**SUMMARY OF FUGITIVE DUST MITIGATION ACTIVITIES**

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Summary of monthly activities related to the Fugitive Dust Control Plan:

The site was monitored daily for fugitive dust and for tracked material onto public roads. Logs are kept on file as part of the Storm Water Pollution Prevention Plan. The following activities were employed during the month of May:

- A water truck and operator are on site daily to moisten unpaved areas.
- Hydroseeded areas are well-covered.
- A mechanical vacuum sweeper was on site the following day(s) to remove dust from the access road, Blanchard Road and Monterey Road/Blanchard Road intersection.

6/18/03

**CONDITION OF CERTIFICATION AQ-52**  
**ULTRA LOW SULFUR DIESEL FUEL RECEIPT(S)**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21



Gulf Transportation  
260 MUSCLE COURT • SOUTH SAN FRANCISCO, CALIFORNIA 94080-6927  
(650) 873-1244

DELIVERY RECEIPT

MILLER THOMPSON CONSTRUCTION  
101 PARR BLVD.  
RICHMOND, CA 94801-1117

S  
H  
T  
O  
P

MILLER THOMPSON CONSTRUCTION  
#1 BLANCHARD RD.  
SAN JOSE, CA 95101

CUSTOMER: 9801

SHIPPER: Nellie ORIGIN: So. Linda

DRIVER'S COMMENTS

ORDER NUMBER	P.O. NUMBER	DATE	TRUCK	TRAILER#	LOC.	DRIVER	TERMS
269,811		06/05/03	40			Mark	NET 10 DAYS
PRODUCT/DESC	QTY ORDERED	HHT/BOL/UNIT	TEMP	SIG	STICKER	COMMODITY	AMOUNT
9 UL SULF DSL	500.00						
FUEL OIL/COMBUSTIBLE LIQUID / NA1993							
THIS DIESEL FUEL DOES NOT CONTAIN UST Certificate on file							
Certificate # *** NONE ***							
<p style="text-align: center;">#60503 S</p> <p>FOR HAZARDOUS MATERIAL EMERGENCY Spill, Leak, Fire, Exposure, or Accident CALL PERS DAY OR NIGHT 1-800-HAZARDOUS 633-8253</p> <p style="text-align: center;">502 10/08/04</p>							

PAY THIS AMOUNT

TRIP MILES LOADED      END ▶ 349 109      START ▶ 349 058      TOTAL ▶ 51

BEFORE

AFTER

	TANK SIZE	FEET	INCH(ES)		TANK SIZE	FEET	INCH(ES)
DIESEL #2				DIESEL #2			
MID UNLEADED				MID UNLEADED			
REGULAR UNLEADED				REGULAR UNLEADED			
PREMIUM UNLEADED				PREMIUM UNLEADED			

TRIP HOURS

TRIP	LOAD TIME		UNLOAD TIME		RETURN TIME
	START	FINISH	START	FINISH	
1245					14:00 14:15

RECEIVED ABOVE COMMODITY & SERVICE IN GOOD ORDER

Driver - Mark

RECEIVED BY

**CONDITION OF CERTIFICATION AQ-52**  
**OFF-ROAD DIESEL FIRED EQUIPMENT USAGE LISTS**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

DATE: June 2003

**CONTRACTOR:** Foundation

This form must be completed before site mobilization and must include all equipment that will be used on site.  
 \*\*All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment ID	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date usage started	Actual date usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Crane		Manitowoc	3900W	395037	300	Daily (February - May)	2/11/03	7/1/03	Received exemption.
Crane		Drott	2500	6240824	170	Daily (February - May)	2/11/03		Received exemption.
Forklift	1994	Gradall	534B	8344167	92	Periodic (April - May)	4/7/03		<100 HP
Forklift	2001	Gradall	544D	0160000	130	Daily (February - May)	2/26/03	7/1/03	1996 or newer
Power Unit		CAT	3412	3851992	800	5	6/16/03	6/29/03	<10 days usage
				7					

CMM Signature: Date: 7/3/2003

Comments:

DATE: June 2003

**CONTRACTOR:** Miller/Thompson Constructors

This form must be completed before site mobilization and must include all equipment that will be used on site.  
\*\* All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Equipment Type	Year	Make	Model	Serial #	Engine HP	# of days equipment planned usage	Actual date started	Actual date usage stopped	Type of mitigation implemented (e.g., CARB, CDPF)
Excavator	91	Hitachi	EX400	164-3151	275	25	4/21/03	6/26/03	CARB
Loader	97	CAT	IT38F	6FTN-532	195	25	4/28/03	6/26/03	CARB
Backhoe	00	CAT	IT416			10	6/10/03	6/26/03	1996 or newer

CMM Signatures

Date: 1/10/88

CMM Signatures

DATE: June 2003

**CONTRACTOR:** Sheeley Drayage Co.

This form must be completed before site mobilization and must include all equipment that will be used on site.  
\*\*All diesel equipment must use ultra low sulfur diesel fuel. Engine idle time must be limited to 10 minutes or less.

Date: 7/3/2005

Comments:

## Contents:

Metcalf Energy Center Equipment Usage List

**CONDITION OF CERTIFICATION BIO-2**  
**SUMMARY OF BIOLOGICAL MONITORING**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

**Biological Resources**  
**Mitigation Monitoring for the**  
**Metcalf Energy Center**

**MONTHLY COMPLIANCE REPORT #21**

**June 2003**

**Prepared by:**

**CH2M HILL**

**2485 Natomas Park Drive, Suite 600**

**Sacramento, California 95833**

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# **METCALF ENERGY CENTER**

## **MONTHLY COMPLIANCE REPORT**

**June 2003**

### **TABLE OF CONTENTS**

Introduction.....	1
Monitored Mitigation Measures .....	2
Summary of Activities.....	3
Worker Environmental Awareness Training.....	4
General Notes and Observations.....	4

### **APPENDICES**

- A) Cumulative Wildlife Species Observed in or Near the Project Area**
- B) WEAT Sign-In Sheets**
- C) Photographs**

# INTRODUCTION

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The Metcalf Energy Center (MEC) site is located in the Santa Clara Valley within the Urban Service Area of south San Jose. The MEC will be a 600-megawatt natural-gas-fired combined cycle power plant with the following features:

- A 230-kilovolt (kV) switchyard and approximately 240 feet of new 230-kV transmission line that will loop into the existing Pacific Gas and Electric (PG&E) 230-kV Metcalf-Monta Vista No. 4 transmission on Tulare Hill.
- An approximately one mile, 16-inch natural gas pipeline that will connect to an existing PG&E transmission backbone pipeline that runs along the eastern side of U.S. 101.
- An approximately 1000-foot water pipeline from a tap into a new South Bay Water Recycling Program's (SBWR) pipeline for cooling water.
- An approximately 1.2-mile water pipeline will supply domestic and backup water supplies.
- A stormwater detention basin and discharge outfall structure to Fisher Creek.
- A new access road from Monterey Road at the Blanchard Road junction and visual screening and landscape corridor along the new access road that will require 6 acres of agricultural land south of the MEC site.
- A second access road (west access road) may extend from Santa Teresa Boulevard to the MEC site that will require 2.0 acre of agricultural land.
- Two temporary construction laydown yards totaling 24.8-acres are located in agricultural land south of the MEC site.

The project was designed to avoid significant negative impacts to sensitive biological resources to the furthest extent feasible. Mitigation measures were developed through consultation with the U. S. Fish and Wildlife Service (USFWS), U. S. Army Corps of Engineers (Corps), National Marine Fisheries Service (NMFS), California Department of Fish and Game (CDFG), and the Water Quality Control Board to minimize unavoidable project impacts. Permits and authorizations from these agencies included conditions that must be monitored by the Designated Biologist. The Biological Monitor will be present onsite during all phases of construction to ensure compliance with the mitigation measures outlined in the *Biological Resources Mitigation Implementation and Monitoring Plan* (BRMIMP). The following report includes all MEC project activities monitored during June 2003.

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## **MONITORED MITIGATION MEASURES**

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Mitigation measures were developed through consultation with USFWS, NMFS, CDFG, San Francisco Bay Regional Water Quality Control Board (Water Board), Corps, and California Energy Commission (CEC) for the MEC project. Compliance with any conditions of the Corps, Water Board, and CDFG permits will be included when permits are received and used on the project.

Conditions of Certification (COC) BIO-1 through BIO-13 were in compliance during June 2003. In compliance with COC BIO-2, the Biological Monitor examined and cleared Phase 2 activity areas immediately prior to and during June activities.

The following conditions described in the USFWS Biological Opinion (BO) remained pertinent to the June monitoring efforts:

- Garbage must be removed from the site.
- Activity must be limited to the minimum necessary.
- The boundaries of the site will be clearly marked.
- All equipment, personnel, and access shall be confined to designated work areas and connecting roadways.
- Refueling will occur at least 50 feet away from aquatic habitats.
- Weekly California red-legged frog surveys will be conducted in work areas (following the 10 days of daily surveys conducted in April).
- Bullfrogs found during amphibian surveys, including adult, subadult, and larval bullfrogs, shall be captured and killed.
- The Biological Monitor or construction personnel will inspect the erosion control features daily.
- Concrete trucks must be washed within a designated area with a surrounding berm.

All activities complied with conditions described in the NMFS BO. Work near Coyote Creek, where NMFS has jurisdiction over anadromous fish (salmon and steelhead), will likely occur in the summer 2004.

The Monitor was available throughout the month to respond to biological issues as needed. June activities are described below.

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# SUMMARY OF ACTIVITIES

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This report includes project activities that took place during June 2003. June activities included ongoing site construction, MEC Ecological Preserve Enhancement, and presentation of the Worker Environmental Awareness Training (WEAT) program to project personnel. The following provides a description of these activities. A cumulative wildlife species list is included in Appendix A. WEAT sign-in sheets are included in Appendix B. Representative photographs of June activities are included in Appendix C. The Biological Monitor completes daily logs summarizing activities, personal interactions, and observations. These logs are available on request.

## **Phase 2 Site Construction**

June Phase 2 site activities included ongoing reinforcement of the installed piles with rebar and concrete; completion of re-circulation waterline installation; and continued equipment transport/storage onto the laydown yards. Some of these activities will likely continue into July 2003.

The Biological Monitor performed general and species-specific wildlife clearance surveys immediately prior to and during all ground disturbance activities. The Biological Monitor continued to survey for injured, dead, and entrapped wildlife throughout each construction zone.

The Biological Monitor performed spot checks of June Phase 2 activities. The spot checks focused on ensuring that work complied with all CEC COCs and on whether upcoming activities on the construction schedule would require continuous or sporadic on-site biological monitoring. All construction related activity remained outside the Fisher Creek riparian corridor.

### *Pile Reinforcement*

Steel piles driven into the MEC footprint site will bear the heavy loads of various power plant structures (e.g. cooling towers, CTGs, etc.). Throughout June, re-bar cages were installed and concrete was poured into each pile. Reinforcement of the piles will likely be completed July 2003.

The concrete washout station continued to be utilized by concrete mixer trucks. Mixer trucks were required to use the station before departing from site.

### *Re-circulation Waterline*

During June 2003, backfilling of the re-circulation waterline was completed. In addition, many of the sheet piles used as shoring for the previously open excavation were removed.

### *Power Plant Materials Storage*

Heavy haul trucks continued to transport equipment onto the north and south laydown yards. All traffic was confined to previously established roads. These activities will continue through the coming months.

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## **MEC Ecological Preserve Enhancement**

Enhancement activities within the ecological preserve continued during June 2003. These activities included continued installation of tree supports (lodgepole pine stakes) and wire mesh herbivory guards.

During a routine inspection of the mitigation vegetation, 5 planted valley oak (*Quercus lombata*) were found dead. It was noted by Calpine's Offsite Coordinator (Art Gonzales) that the ground around each dead tree was saturated with water. The tree mortality was likely due to overwatering. The dead oak trees will be removed and subsequently replaced with new trees. Replanting will likely occur in July 2003.

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## **WORKER ENVIRONMENTAL AWARENESS TRAINING**

The WEAT program was developed exclusively for the MEC project. Program materials include a handbook, video, and poster. During June, the WEAT program was administered as required by COC BIO-6 from the CEC *Commission Decision*.

In June, WEAT continued with the presentation of a training video and distribution of WEAT handbooks.

A total of 17 personnel received WEAT training during June for a total of 563 employees trained at MEC. A Calpine Site Safety Officer administered the WEAT training to all new June employees. A list of June WEAT attendees is included in Appendix B. Signed affidavits are kept on file by both Calpine's Compliance Manager and the Designated Biologist.

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## **GENERAL NOTES AND OBSERVATIONS**

June activities were minimal with all site activities confined to previously disturbed areas. The Biological Monitor's duties were limited accordingly. The Biological Monitor remained on-call for most of the month. Although Phase 2 activities are ongoing (e.g. equipment delivery, pile reinforcement), the Biological Monitor's duties will likely remain limited until full construction commences.

## **APPENDIX A**

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### **Cumulative Wildlife Species Observed In or Near the Project Area**

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to June 30, 2003)**

Common Name	Scientific Name	Location		
<b>INSECTS</b>				
Bay checkerspot butterfly	<i>Euphydryas editha</i> spp. <i>bayensis</i>	TH		
Cabbage white butterfly	<i>Pieris rapae</i>	EC		
Anise swallowtail butterfly	<i>Papilio zelicaon</i>	TH		
Buckeye butterfly	<i>Precis coenia</i>	TH		
Painted lady butterfly	<i>Vanessa cardui</i>	EC		
Opler's longhorn moth	<i>Adela oplerella</i>	TH		
Tarantula	<i>Euryopelma californicum</i>	TH		
<b>AMPHIBIANS AND REPTILES</b>				
Pacific tree frog	<i>Hyla regilla</i>	TH, FC, EC		
Arboreal salamander	<i>Aneides lugubris</i>	TH, EC		
Western fence lizard	<i>Sceloporus occidentalis</i>	EC, TH, LA, FC		
Side-blotched lizard	<i>Uta stansburiana</i>	EC		
Southern alligator lizard	<i>Elgaria multicarinata</i>	EC, TH		
Western skink	<i>Eumeces skiltonianus</i>	TH		
Gopher snake	<i>Pituophis melanoleucus</i>	EC, LA, FC		
<b>BIRDS</b>				
Pied-billed grebe	<i>Podilymbus podiceps</i>	FC, CC		
American white pelican	<i>Pelecanus erythrorhynchos</i>	EC*		
Double-crested cormorant	<i>Phalacrocorax auritus</i>	CC*		
Canada goose	<i>Branta canadensis</i>	EC*, CC		
Mallard	<i>Anas platyrhynchos</i>	FC, CC		
Gadwall	<i>Anas strepera</i>	FC		
Wood duck	<i>Aix sponsa</i>	FC, CC		
Common merganser	<i>Mergus merganser</i>	FC		
Hooded merganser	<i>Lophodytes cucullatus</i>	FC		
American coot	<i>Fulica americana</i>	FC, CC		
Great blue heron	<i>Ardea heroides</i>	FC		
Green heron	<i>Butorides virescens</i>	FC, CC		
Great egret	<i>Casmerodius albus</i>	FC		
Turkey vulture	<i>Cathartes aura</i>	EC*, TH, LA		
Killdeer	<i>Charadrius vociferus</i>	LA, LEA*, EC		
<b>Location:</b>				
CC = Coyote Creek Riparian Corridor	TH = Tulare Hill Ecological Preserve			
EC = Metcalf Energy Center Plant Site	TL = Transmission Line Corridor			
FC = Fisher Creek Riparian Corridor	WL = Water Line Corridor			
GP = Gas Pipe Line Corridor	LEA = Laydown expansion area			
LA = Laydown Area				
<b>Notes:</b>				
* Flyover or otherwise not utilizing area resources.				
** Non-active sign (i.e. carcass, feather, nest, track)				

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to June 30, 2003) (Continued)**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Location</b>
<b>BIRDS (continued)</b>		
White-tailed kite	<i>Elanus caeruleus</i>	FC
Northern harrier	<i>Circus cyaneus</i>	FC, TH
Golden eagle	<i>Aquila chrysaetos</i>	TH
Osprey	<i>Pandion haliaetus</i>	CC*, TH, EC, FC
Sharp-shinned hawk	<i>Accipiter striatus</i>	FC, TH
Cooper's hawk	<i>Accipiter cooperii</i>	CC, EC*, FC
Red-shouldered hawk	<i>Buteo lineatus</i>	EC, FC, LA, CC, LEA
Red-tailed hawk	<i>Buteo jamaicensis</i>	EC, FC, GP, TH, TL, CC
American kestrel	<i>Falco sparverius</i>	EC, TH
Prairie falcon	<i>Falco mexicanus</i>	TH
California quail	<i>Callipepla californica</i>	CC, GP
Spotted sandpiper	<i>Actitis macularia</i>	FC
Mourning dove	<i>Zenaida macroura</i>	EC, FC, TH, TL, CC
Rock dove	<i>Columba livia</i>	EC*, TH*
Anna's hummingbird	<i>Calypte anna</i>	TH, CC
Hummingbird sp.		EC, TH, FC
Belted kingfisher	<i>Ceryle alcyon</i>	FC, EC*, CC
Northern flicker	<i>Colaptes auratus</i>	EC, FC, TH
Nuttall's woodpecker	<i>Picoides nuttallii</i>	FC, FC**(nest), EC
Downy woodpecker	<i>Picoides pubescens</i>	EC, FC
Black phoebe	<i>Sayornis nigricans</i>	EC, FC, TL, LEA, CC
Say's phoebe	<i>Sayornis saya</i>	LEA
Western scrub-jay	<i>Aphelocoma californica</i>	EC, FC, LEA, CC
Common raven	<i>Corvus corax</i>	EC, TH, FC, CC
Horned lark	<i>Eremophila alpestris</i>	TH
Cliff swallow	<i>Petrochelidon pyrrhonota</i>	FC, FC**(nest), EC, TL
Barn swallow	<i>Hirundo rustica</i>	EC, LEA
Oak titmouse	<i>Baeolophus inornatus</i>	FC, CC
Chestnut-backed chickadee	<i>Poecile rufescens</i>	FC
Bushtit	<i>Psaltriparus minimus</i>	EC, FC, FC**(nest), GP, TL, CC
White-breasted nuthatch	<i>Sitta carolinensis</i>	FC
<u>Location:</u>		
CC = Coyote Creek Riparian Corridor		TH = Tulare Hill Ecological Preserve
EC = Metcalf Energy Center Plant Site		TL = Transmission Line Corridor
FC = Fisher Creek Riparian Corridor		WL = Water Line Corridor
GP = Gas Pipe Line Corridor		LEA = Laydown expansion area
LA = Laydown Area		
<u>Notes:</u>		
* Flyover or otherwise not utilizing area resources.		
** Non-active sign (i.e. carcass, feather, nest, track)		

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to June 30, 2003) (Continued)**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Location</b>		
<b>BIRDS (CONTINUED)</b>				
Bewick's wren	<i>Thryomanes bewickii</i>	FC, TH, CC		
Rock wren	<i>Salpinctes obsoletus</i>	FC, TH		
Ruby-crowned kinglet	<i>Regulus calendula</i>	TH, FC, CC		
Northern mockingbird	<i>Mimus polyglottos</i>	EC, FC		
Western bluebird	<i>Sialia mexicana</i>	FC, CC, EC, LEA		
American robin	<i>Turdus migratorius</i>	LA, EC, CC		
Loggerhead shrike	<i>Lanius ludovicianus</i>	TH, FC, EC		
Western kingbird	<i>Tyrannus verticalis</i>	CC		
European starling	<i>Strunus vulgaris</i>	LEA, FC, EC		
Rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	EC		
California towhee	<i>Pipilo crissalis</i>	EC, TH, FC, CC		
Dark-eyed junco	<i>Junco hyemalis</i>	FC, TH, CC		
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	EC, FC, TH, CC		
Song sparrow	<i>Melospiza melodia</i>	EC, LA, LEA, FC		
Yellow-rumped warbler	<i>Dendroica magnolia</i>	TH, FC, CC		
Western meadowlark	<i>Sturnella neglecta</i>	EC, LA, TH		
Red-winged blackbird	<i>Agelaius phoeniceus</i>	FC		
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	FC, EC, CC		
Bullock's oriole	<i>Icterus bullockii</i>	FC, FC**(nest), CC		
House finch	<i>Carpodacus mexicanus</i>	EC, LA**, CC, FC		
American goldfinch	<i>Carduelis tristis</i>	LEA		
Lesser goldfinch	<i>Carduelis psaltria</i>	EC, FC, CC, TH		
House sparrow	<i>Passer domesticus</i>	EC, FC, CC		
<b>MAMMALS</b>				
Common raccoon	<i>Procyon lotor</i>	FC**(track)		
Striped skunk	<i>Mephitis mephitis</i>	TH**(track)		
Opossum	<i>Didelphis marsupialis</i>	EC		
Coyote	<i>Canis latrans</i>	TH		
Feral cat	<i>Felis catus</i>	EC		
Bobcat	<i>Lynx rufus</i>	CC** (carcass)		
California ground squirrel	<i>Spermophilus beechyi</i>	EC, FC, TH, TL		
Western gray squirrel	<i>Sciurus griseus.</i>	FC		
<u>Location:</u>				
CC = Coyote Creek Riparian Corridor	TH = Tuolumne Hill Ecological Preserve			
EC = Metcalf Energy Center Plant Site	TL = Transmission Line Corridor			
FC = Fisher Creek Riparian Corridor	WL = Water Line Corridor			
GP = Gas Pipe Line Corridor	LEA = Laydown expansion area			
LA = Laydown Area				
<u>Notes:</u>				
* Flyover or otherwise not utilizing area resources.				
** Non-active sign (i.e. carcass, feather, nest, track)				

**Cumulative Wildlife Species Observed In or Near the Metcalf Energy Center Project  
and Linear Facilities Area (May 2001 to June 30, 2003) (Continued)**

Common Name	Scientific Name	Location		
<b>MAMMALS (CONTINUED)</b>				
Valley pocket gopher	<i>Thomomys bottae</i>	LA** (carcass)		
California vole	<i>Microtus californicus</i>	FC, EC		
Deer mouse	<i>Peromyscus maniculatus</i>	TH		
Norway Rat	<i>Rattus norvegicus</i>	EC		
Common muskrat	<i>Ondatra zibethicus</i>	FC		
Black-tailed jackrabbit	<i>Lepus californicus</i>	EC, TH		
Feral pig	<i>Sus scrofa</i>	CC** (carcass)		
Mule (black-tailed) deer	<i>Odocoileus hemionus</i>	FC, GP, CC		
<b>Location:</b>				
CC = Coyote Creek Riparian Corridor	TH = Tulare Hill Ecological Preserve			
EC = Metcalf Energy Center Plant Site	TL = Transmission Line Corridor			
FC = Fisher Creek Riparian Corridor	WL = Water Line Corridor			
GP = Gas Pipe Line Corridor	LEA = Laydown expansion area			
LA = Laydown Area				
<b>Notes:</b>				
* Flyover or otherwise not utilizing area resources.				
** Non-active signs (i.e., carcass, feather, nest, track)				

## **APPENDIX B**

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### **WEAT Sign-In Sheets**

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 6-2-03

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

**Instructor/s:**

WEAT VIDEO (Administered by Connie Conway)

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

— 1 —

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO Administered by Connie Conway

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 9/30/03

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO Administered by Connie Conaway

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 6-16-03

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO (Administered by Connie Conway)

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 6-19-03

PLEASE NOTE:

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO Administered by Connie Connelly

METCALF ENERGY CENTER  
ENVIRONMENTAL TRAINING  
SIGN-IN SHEET  
*(Biology, Archaeology, & Paleontology)*

DATE: 6-26-03

**PLEASE NOTE:**

*By signing below, I acknowledge that I have attended the Worker Environmental Awareness Training Program for the Metcalf Energy Center Project, and I agree to comply with all the environmental requirements presented.*

Instructor/s:

WEAT VIDEO (Administered by Connie Conway)

## **APPENDIX C**

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### **Photographs**



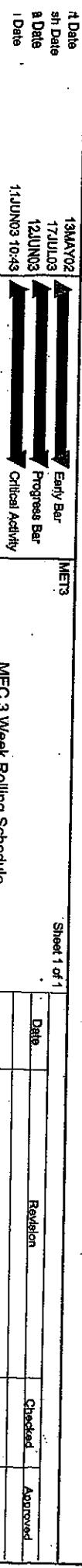
**MEC Site**

**CONDITION OF CERTIFICATION CUL-7**  
**WEEKLY SCHEDULES**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

JCMC0120	Receive ST Condenser	15JUL03*	17JUL03	■ Receive ST Condenser
JVL00357	Place Rebar In Cooling Tower	03MAR03A	24JUN03	■ Place Rebar In Cooling Tower
JVL00367	Place Concrete In Cooling Tower	28MAR03A	18JUN03	■ Place Concrete In Cooling Tower
JVL00203	Place Rebar In Steam Turbine Platform	25APR03A	17JUN03	■ Place Rebar In Steam Turbine Platform
JVL00202	Pour Concrete In Steam Turbine Platform	22MAY03A	18JUN03	■ Pour Concrete In Steam Turbine Platform
JVL00210	Place Rebar In Raw Water Storage Tank	12JUN03	13JUN03	■ Place Rebar In Raw Water Storage Tank
JVL00215	Remove Sheet Piling	16JUN03	18JUN03	■ Remove Sheet Piling
JVL00209	Pour Concrete In Raw Water Storage Tank	18JUN03*	18JUN03	■ Pour Concrete In Raw Water Storage Tank

IGMECH1065	Air Test Joints	26MAY03A	12JUN03	■ Air Test Joints
JGMECH1075	Cat Outside of Pipe Joint	26MAY03A	12JUN03	■ Coat Outside of Pipe Joint
JGMECH1080	Weld Pipe	27MAY03A	12JUN03	■ Weld Pipe
JGMECH1105	Backfill Remainder of Pipe	02JUN03A	13JUN03	■ Backfill Remainder of Pipe
JGMECH1080	Install Cathodic Protection	05JUN03A	25JUN03	■ Install Cathodic Protection
JGMECH1070	Grout Inside of Pipe Joints	16JUN03*	20JUN03	■ Grout Inside of Pipe Joints
JGMECH1100	Install Covers on Flanges	20JUN03	20JUN03	■ Install Covers on Flanges



Sheet 1 of 1

Date:

Revision:

Checked:

Approved:

## MEC 3 Week Rolling Schedule



**CONDITION OF CERTIFICATION PAL-4**  
**PALEO MONTHLY SUMMARY REPORT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

**Metcalf Energy Center Project  
Paleontological Resource Monitoring and Mitigation Program**

**Monthly Report**

**Project Name:** Metcalf Energy Center (MEC)

**Project Number:** 01-17

**Clients:** Calpine/CH2M Hill

**Month:** June 2003

**Designated Paleontological Resource Specialist:** Dr. Lanny H. Fisk, PhD, RG

**Monthly Report for June 2003:**

*During the month of June 2003, PaleoResource Consultants (PRC) continued to work with Calpine Corporation through their environmental consultants, CH2M Hill, to mitigate potential adverse impacts to paleontological resources (fossils) which might result from construction of the Metcalf Energy Center (MEC) and associated linear facilities (including a natural gas pipeline, cooling-water supply line, and electrical transmission line) all located in south San Jose, California. In its Conditions of Certification (COCs) for MEC, the California Energy Commission (CEC) mandated that Calpine adopt Society of Vertebrate Paleontology (SVP) standard guidelines for the mitigation of construction-related adverse impacts on paleontological resources. In compliance with SVP standard guidelines, in September 2002 we recommended reducing paleontological monitoring at the MEC plant site to only spot checking specific deep excavations that would impact previously undisturbed sediment. The CEC approved this reduced monitoring plan.*

*During June 2003, the only earth-moving activities requiring monitoring consisted of removal of steel shoring from greater than 25 feet deep surrounding the circulation water pipe excavation. While monitoring shoring removal, the no paleontological resources were discovered by PRC paleontological monitor Jaspal Saini.*

*Excavations for the natural-gas pipeline, cooling-water pipeline, and electrical transmission line are not scheduled to start until later this summer. Full-time paleontological monitoring will be done at the beginning of excavations for each of these linear facilities. Then, in compliance with SVP standard guidelines, once one-half the excavations for each of these facilities is completed and if no significant fossils have been discovered, monitoring will be reduced to half-time, quarter-time, spot-checking, or suspended entirely. As startup of construction for these portions of the project nears, Calpine will contact PRC with specific dates.*

*Calpine Environmental Compliance Manager Kristen O'Kane continues to notify us regarding any scheduled excavations that would impact previously undisturbed sediments, asking if we think that paleontological monitoring is necessary. In most cases, since these excavations would only impact a few feet of undisturbed sediments and since paleontological resources have not previously been discovered at such shallow depths at MEC, we have responded that, in our professional opinion, no monitoring is necessary. However, PRC paleontological monitors are available and "on-call" to monitor or spot check any deeper excavations at the MEC plant site or other earth-moving activities related to the MEC project.*

**CONDITION OF CERTIFICATION SOCIO-1**  
**LIST OF PLANNED PROCUREMENT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

SOCIO-1: List of planned procurement of materials or hiring outside the local regional area during the next two months.

<b>Material/equipment</b>	<b>Manufacturer</b>	<b>Point of Origin</b>	<b>Reason</b>
Sample panel for water treatment system	Out for bid		
Compressed air system	Issued for bid		
Miscellaneous horizontal pumps	In bid evaluation		
Closed cooling water heat exchanger	In bid evaluation		
Continuous emissions monitoring system	In bid evaluation		
Oil and water separator	In bid evaluation		
Standby generator	In bid evaluation		
Fire pumps	In bid evaluation		
Shop fabricated tanks	In bid evaluation		

**CONDITION OF CERTIFICATION GEN-3**  
**COPY OF CBO PAYMENT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

Enter Voucher Information - Use - Express Voucher

File Edit View Tools Insert Options Reports Help

Print Preview | Back | Forward | Stop | Home | Back | Forward | Stop | Home | Print | Find | Replace | Search | Help | Exit |

Vendor: WILLIAMS  
Voucher #: 0000020493 Date: 05/22/2003 Pay Group: 00

Payment Details Payment Method Payment Action

Cost Center: UBOC	Check	Schedule
Org: MAIN		
Reference: 00345517		
Date: 05/22/2003		

Gross Am:	46,728.93
Distribution:	0.00

Print | Save | Record Payment | Update Detail

Enter Voucher Information - Use - Express Voucher

File Edit View Tools Insert Options Reports Help

Print Preview | Back | Forward | Stop | Home | Back | Forward | Stop | Home | Print | Find | Replace | Search | Help | Exit |

Vendor: WILLIAMS  
Voucher #: 0000020493 Date: 05/22/2003 Pay Group: 00

Payment Details Payment Method Payment Action

Cost Center: UBOC	Check	Schedule
Org: MAIN		
Reference: 00345517		
Date: 05/22/2003		

Gross Am:	44,549.21
Distribution:	0.00

Print | Save | Record Payment | Update Detail

Enter Voucher Information - Use - Express Voucher

File Edit View Options Tools Help

Unit: 0000020493 Vendor: WILDCAT  
Voucher: 0000020493 Date: 06/19/2003 Pay Group: 05

Payment Method:	Check	Paid To Date:
Bank:	UBOC	7,666.33
Account:	MAIN	0.00
Amount:	00352100	
Date:	06/19/2003	
Print:	0000020493	
Action:	WRP	1

Previous Next Record Payee Update DSPL

This is a screenshot of a Windows-based application window titled "Enter Voucher Information - Use - Express Voucher". The window has a standard title bar with icons for minimize, maximize, and close. Below the title bar is a menu bar with "File", "Edit", "View", "Options", "Tools", and "Help". The main area of the window is divided into several sections. At the top, there are fields for "Unit" (0000020493), "Vendor" (WILDCAT), "Voucher" (0000020493), "Date" (06/19/2003), and "Pay Group" (05). Below these are three groups of input fields: "Payment Method" (Check, Schedule), "Bank" (UBOC, MAIN), and "Account" (00352100, 06/19/2003). There is also a "Print" field containing the voucher number (0000020493) and an "Action" field containing "WRP" and the number "1". At the bottom of the window are several buttons: "Previous", "Next", "Record", "Payee", "Update", and "DSPL".

**CONDITION OF CERTIFICATION TRANS-2**  
**COPY OF ENCROACHMENT PERMIT**

METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21

**SANTA CLARA COUNTY DEPARTMENT OF ROADS AND AIRPORTS  
ENCROACHMENT PERMIT**

45020106

Permittee Name CALPINE CORPORATION  
 Address 4160 DUBLIN BOULEVARD ATT JEFF JONES  
 City DUBLIN CA 94568  
 Telephone (916) 608-3851 CHRIS DELANEY



4  
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6

ISSUED BY  
THE SANTA CLARA COUNTY  
ROAD COMMISSIONER

BY Ted C. Mayes  
TITLE En. Const. Inspector

**PROJECT STATUS**

COMPLETE DATE \_\_\_\_\_

CANCEL DATE \_\_\_\_\_

BY INSPECTOR \_\_\_\_\_

BY PERMIT OFFICE \_\_\_\_\_

**SPECIAL PROVISIONS**

-Maintain traffic control according to CALTRANS' STANDARDS and the attached traffic control plans.

-Maintain pedestrian and driveway access during project.

-Protect street surface from damage during construction.

PERMIT NUMBER 45020106	DATE ISSUED 03/09/02	EXPIRATION DATE 03/09/03
---------------------------	-------------------------	-----------------------------

**LOCATION OF WORK**

Address  
Road Name MALECH RD. @ METCALF RD.

Description

WORK WITHIN COUNTY ROAD RIGHT OF WAY TO INSTALL A 16" NATURAL GAS PIPELINE CROSSING MALECH DRIVE AS DESCRIBED ON ATTACHMENT 1 (PAGE 6). WORK AREA AS SHOWN ON THE ATTACHED PLAN SKETCH.

**Attention!**  
This could save you money!  
Contact your permit inspector at (408) 573-2461, with reference to this permit number, prior to starting work in the County right of way.

APN 729-56-5 File Number SP# 02-12

Locality 98-57-51 Zone 3-144

BONDS	AMOUNT	TYPE	RELEASE	STATUS	REDUCE BY
PERFORMANCE			<input type="checkbox"/>	<input type="checkbox"/>	
LABOR & MATERIAL			<input type="checkbox"/>	<input type="checkbox"/>	
BOND COMPANY					
INSURANCE CO.					
ENGINEER'S NAME				RE#	
INSPECTION BY	ROADS AND AIRPORTS			PHONE 573-2461	
BUILDING PERMIT #					

**PERMIT EXPIRES IF WORK IS NOT STARTED BY 03/09/03**

**KEEP THIS PERMIT ON JOB SITE**

CALL 573-2461 24 HOURS BEFORE STARTING ANY WORK  
WITH REFERENCE TO PERMIT NUMBER 45020106

**INSPECTION REQUIRED**

**SEE ATTACHMENTS FOR PERMIT REQUIREMENTS**

**SANTA CLARA COUNTY DEPARTMENT OF ROADS AND AIRPORTS  
ENCROACHMENT PERMIT**

45020106

Permittee Name CALPINE CORPORATION  
 Address 4160 DUBLIN BOULEVARD  
 City DUBLIN CA 94568  
 Telephone (916) 508-3851 CHRIS DELANEY



4  
5  
0  
2  
0  
1  
0  
6

**PERMIT NUMBER** 45020106      **DATE ISSUED** 03/09/02      **EXPIRATION DATE** 03/09/04

**LOCATION OF WORK**

**Address**

Road Name MALECH RD. @ METCALF RD.

**Description**

REVISION 1 Jan 24, 2003:

- \*-Expiration date is extended to 03/09/2004
- \*-All other conditions of this permit remain in effect
- \*-Attach this to the original permit

WORK WITHIN COUNTY ROAD RIGHT OF WAY TO INSTALL A 16" NATURAL GAS PIPELINE CROSSING MALECH DRIVE AS DESCRIBED ON ATTACHMENT 1 (PAGE 6). WORK AREA AS SHOWN ON THE ATTACHED PLAN SKETCH.

ISSUED BY  
THE SANTA CLARA COUNTY  
ROAD COMMISSIONER

BY Ted C Nguyen  
TITLE En. Project Inspector

**PROJECT STATUS**

**COMPLETE**

DATE \_\_\_\_\_

**CANCEL**

DATE \_\_\_\_\_

BY

INSPECTOR \_\_\_\_\_

BY

PERMIT OFFICE \_\_\_\_\_

**SPECIAL PROVISIONS**

- Maintain traffic control according to CALTRANS' STANDARDS and the attached traffic control plans.
- Maintain pedestrian and driveway access during project.
- Protect street surface from damage during construction.

APN 729-56-5      File Number SP# 02-12

Locality 98-57-51      Zone 3-144

BONDS	AMOUNT	TYPE	RELEASE	STATUS	REDUCE BY
PERFORMANCE			<input type="checkbox"/>	<input type="checkbox"/>	
LABOR & MATERIAL			<input type="checkbox"/>	<input type="checkbox"/>	

BOND COMPANY

INSURANCE CO.

ENGINEER'S NAME

R.E. #

INSPECTION BY ROADS AND AIRPORTS

PHONE 573-2461

BUILDING PERMIT #

**PERMIT EXPIRES IF WORK IS NOT STARTED BY** 03/09/04

**KEEP THIS PERMIT ON JOB SITE**

CALL 573-2461 24 HOURS BEFORE STARTING ANY WORK  
WITH REFERENCE TO PERMIT NUMBER 45020106

**INSPECTION REQUIRED**

**SEE ATTACHMENTS FOR PERMIT REQUIREMENTS**

Attention!  
This could save you money!  
Contact your permit inspector  
at (408) 573-2461, with reference  
to this permit number, prior to  
starting work in the County  
right of way.

## GENERAL PROVISIONS

### I. WORK REQUIREMENTS

1. **Legal Enforcement** - All provisions applicable to encroachment permits in the California Streets and Highways Code, the Santa Clara County Ordinance Code and Cal O.S.H.A. shall apply to this Permit.
2. **General Instructions** - All work to be completed in accordance with the provisions stipulated by the Roads & Airports Department and any attachments made hereto. Approved plans are on file in the Roads & Airports Department. The Director may require modification of these plans as needed because of special field conditions. If additional engineering, soils or geological investigations are required, they shall be provided by Permittee. Any required surveying and construction staking shall be provided by Permittee.
3. **Emergency Contacts** - Names and telephone numbers of two (2) responsible persons will be furnished to the Permit Office prior to start of work for emergency contacts, twenty-four (24) hours a day, seven (7) days a week. The contractor or Permittee will have a supervisory representative available for contact on the project at all times during the construction duration.
4. **On Site** - This Permit shall be kept at the site of work and must be shown to any authorized representative of the Roads & Airports Department or any law enforcement officer upon demand.
5. **Material Storage** - No material will be stored near the edge of pavement, the traveled way, or within the shoulder line which would create a hazardous condition to the traveling public.
6. **Traffic Protection** - The Permittee shall make adequate provisions for the protection of the traveling public. Two (2) copies of a proposed traffic control procedure shall be submitted to the Land Development Permit Office for approval prior to any change in traffic patterns on any roads. 24 hours prior to starting work that involves an approved traffic detour, the Permittee shall inform Santa Clara County Communications at (408) 299-2501 and the appropriate local garbage collection company of the date(s), time(s) and details of the detour.
7. **Traffic Lanes** - Two (2) 12-foot traffic lanes shall be open to the traveling public during all hours of darkness, and on all weekends and holidays. One lane, one-way traffic may be permitted under the control of not less than two (2) competent flagmen during normal working hours. No work within a traveled roadway shall be undertaken until all materials, equipment, and labor forces are available to pursue the work to completion within five (5) work days, unless prior approval is obtained from the Department.
8. **Signs** - Any signs to be constructed in the execution of this Permit are to be approved by the Land Development & Permits Office of the County of Santa Clara prior to placement of signs.
9. **Traffic Control Signs** - Traffic control and warning signs shall be installed in accordance with the latest issue of "Manual of Traffic Controls for Construction & Maintenance Work Zones" of the State of California, Department of Transportation (Caltrans).
10. **Drainage** - If the work performed by the Permittee interferes with the established surface drainage pattern, ample provision shall be made by the Permittee to provide for said drainage and approval by the Land Development & Permit Office is required.
11. **Permanent Monuments** - Any property corner stake, street monument or other permanent survey monument that will be disturbed during construction shall be shown on the plans for the work and referenced, removed and reset by competent persons legally qualified to perform this work.
12. **Inspection** - The Permittee shall request final inspection from Land Development & Permits within ten (10) days from the date of completion for construction acceptance of the work.
13. **Facility Relocation** - Permittee shall be responsible for any required relocation, and cost thereof, of existing utilities or encroachments which may be affected by this Permit.
14. **Monument Corner Records** - Section 8771 of the Business and Professional Code, and Section 732, 149.5, and 810.5 of the Streets and Highways Code, Rev. 1995, mandates that prior to any reconstruction or relocation of streets or highways, all survey monuments are to be located and referenced to stable

objects outside the construction area by or under the direction of a person authorized to practice land surveying. A corner record which shows the reference ties is to be filed in the office of the County Surveyor. After construction, permanent monuments are to be reset and a second corner record shall be filed.

## II. PERMIT PROVISIONS

1. **Revocation** - This Permit is revocable in accordance with the procedures and requirements of California Streets and Highways Code.
2. **Indemnification** - The Permittee shall fully indemnify, defend, and hold harmless the County of Santa Clara (hereinafter "County"), its officers, agents and employees from any claim, liability, loss, injury or damage arising out of, or in connection with, performance of this Agreement by the Permittee, its contractor and/or its agents, employees or sub-contractors, excepting only loss, injury or damage caused by the sole negligence or willful misconduct of personnel employed by the County. It is the intent of the parties to this Agreement to provide the broadest possible coverage for the County. The Permittee shall reimburse the County for all costs, attorneys' fees, expenses and liabilities incurred with respect to any litigation in which the Permittee is obligated to indemnify, defend and hold harmless the County under this Agreement.
3. **Insurance** - The Permittee shall obtain insurance as required by the Department in the attached exhibit and shall provide a certificate of insurance verifying such insurance. The County, its officers, employees and agents shall be named as additional insureds.
4. **Bonds** - The Permittee shall obtain the performance bond in the amount indicated when required by the Department in the attached exhibit and shall provide a certified copy of the bond verifying such bond in the amount required by the Department.
5. **Bond Release** - If a faithful performance bond is posted, it will be released by the Roads & Airports Department after a written request for a final inspection and verification by the Department that the work has been satisfactorily completed subject to any maintenance bond requirements.
6. **Damages Caused By Permittee/Repairs** - All necessary road repairs resulting from the encroachment permit work shall be made in accordance with County standards and specifications at the sole expense of the Permittee.

The Permittee is required to repair any damage caused by the Permittee or its contractors as a consequence of labor performed under the Permit within the time indicated by the County. If the Permittee fails to make the repairs within the time indicated, the County at its sole option is authorized to repair the damage and may recover all cost incurred, including overhead and administrative costs, from the Permittee, its surety or insurance carrier.

- A. Prior to any construction activity in the vicinity of the fiber-optic facilities (i.e., conduit, fiber-optic cable, pullbox, splice enclosure, termination panel, and any related fiber-optic improvements), the Permittee or its Contractor shall pothole to locate, identify, and provide necessary precautionary measures to protect the existing fiber-optic facilities within the Project limits from being damaged by construction activities. Potholing in dirt area shall be performed by hand and no power tool/equipment shall be permitted.
- B. If the fiber-optic facilities are damaged by the Permittee's or its Contractor's operations, the Permittee or its Contractor shall make the necessary repair to the damaged fiber-optic facilities in accordance with Section 86.01.06 "Maintaining Existing and/or Temporary Electrical Systems and Traffic Communication Systems" of the County Standard Specifications and the following. The interim and permanent repairs of the damaged fiber-optic cable and related facilities shall be in accordance with the requirements specified below.
- C. **Interim Repair and Replacement of Damaged Fiber-optic Cable and Related Facilities.**
  - a. Within 48 hours of the damage occurrence, the Permittee or its Contractor shall temporarily splice the fiber-optic cable using mechanical or fusion splicing, at the sole discretion of the County. After completion of temporary repairs, the County will determine whether the end equipment operates satisfactorily. If not, the County may direct the Permittee to replace the temporary mechanical splice with a fusion splice within 48 hours. This shall be considered an interim repair only to restore the County's Traffic Management System (TMS). The Permittee or its Contractor

shall permanently repair other damaged facilities, such as conduit and pullbox, unless approved otherwise by the County. The repair shall be undertaken in the nearest junction box, by pulling available slack in the cable. If, in the determination of the County, insufficient slack is available, a new junction box shall be installed as directed.

b. Within 30 days after the acceptance of the interim repair by the County, the Permittee or its Contractor shall obtain a modified encroachment permit and replace the damaged cable between the system's end-to-end splice points installed during the initial installation (as shown on the Fiber Splicing Details Map available for review in the Engineering Office of Traffic and Electrical Operations). During this permanent repair process, the fiber-optic cable shall not be disconnected or the equipment communicating on the cable shall not become non-operational for more than 48 hours. A seven-day notice shall be given to the Permit Inspection Unit of the Roads & Airports Department by calling (408) 573-2451 or faxing to (408) 441-0275 prior to any work associated with the permanent repair of the fiber-optic cable. The replacement cable shall be of length and type equivalent to the replaced cable. Cable material, installation and testing shall meet the requirements of the County Standard Specifications as follows:

- Section 86.02.08F "Fiber-optic Cable",
- Section 86.02.09C "Installation of Fiber-optic Cable",
- Section 86.02.09D(1) "Fiber-optic Connectors",
- Section 86.02.09E(2) "Fiber-optic Cable Splicing",
- Section 86.02.09G "Fiber-optic Cable Splice Enclosure", and
- Section 86.02.13D "Fiber-optic Cable Testing". OTDR and power meter tests shall be done after the repair to assure that a light loss is within the maximum allowable loss. This loss shall be determined by comparison of the test results with OTDR test results on file at the County, derived from the most recent test on each fiber. The OTDR test shall be performed on each fiber strand. The power meter test shall be performed only on fibers terminated on both ends. Both tests shall be done at 1550 nm and 1310 nm.

- D. In the event that the Permittee or its Contractor fails to make the necessary repairs and/or replacement of the fiber-optic facilities within the timeframe as specified herein, the County at its sole option may perform the necessary repairs and/or replacement, interim and permanent, of the damaged facilities and recover all costs and expenses in accordance with the conditions of the Permit.
- E. The Permittee or its Contractor shall guarantee the repair work for a period of one year from the date of acceptance by the County in accordance with Section 5.17 "Correction of Work & Guarantee" of the County Standard Specifications.
7. **Private Property** - This Permit shall not be construed as authorization for excavation and grading on private property adjacent to the encroachment or any other work for which a separate permit may be required.
8. **Relocation Responsibility** - In the event future improvement of the road necessitates relocation of the encroachment authorized by this Permit, the Permittee shall relocate same at his/her sole expense.
9. **Contracts and Agreements** - This permit does not release the Permittee from any liabilities contained in other agreements or contracts with the County or municipal agencies.
10. **Acceptance** - Commencement of any work under this Permit shall constitute acceptance of the conditions and requirements of the Permit for the installation or future maintenance of the encroachment whether or not the Permit is signed by said person or an authorized representative of said person, firm or corporation.

ADDITIONAL SPECIAL PROVISIONS:

ENCROACHMENT PERMIT NO. 45020106

LOCATION TALECH RD @ METCALF RD

Work is subject to County Ordinance Code B-17; County Standard Plans and Details; State of California, Dept. of Transportation (CALTRANS) Standard Specifications and Standard Plans, latest issue. All landscaping removed or damaged shall be replaced in kind and approved by the County Inspector in the field.

WARNING SIGNS AND PUBLIC SAFETY AND SAFE WORK PRACTICES:

1. Construction in road right-of-way shall be signed in accordance with "Manual of Warning Signs, Lights, and Devices" latest issue from State of California, Dept. of Transportation (CALTRANS).
2. A minimum of one (1) traffic lane shall be kept passable, under the direction of competent flagmen, at all times during the normal work day, and a minimum of two (2) full traffic lanes shall be safe and passable during hours of darkness (the time between sundown and sunrise shall be considered hours of darkness).
3. All construction work shall be performed in accordance with CAL O.S.H.A. Safety Orders, latest issue.

EXCAVATION AND BACKFILL:

1. All roadway surfacing shall be sawcut to neat lines prior to trench restoration.
2. All trenches and excavations, where permitted, shall be backfilled in accordance with Sec. 16.03 of the County Standard Specifications with structural backfill or sand material, having a sand equivalent of not less than 20, and shall be jetted and/or compacted to 95% relative compaction in accordance with State of California test method #216, by rolling or tamping.

BASE RESTORATION:

1. All trenches in roadways, and within seven (7) feet beyond the edge of pavement, shall immediately after compaction have a minimum of one (1) foot of Santa Clara County Standard Class 2 aggregate base placed in the trench and compacted to 95% relative compaction in accordance with State of California test method #216, by rolling or tamping.
2. The County may require temporary asphalt surfacing on all trenches in roadways.

ASPHALT CONCRETE PAVING RESTORATION:

Trench restoration shall be in kind, but not less than:

1. 12" Santa Clara County Standard Class 2 aggregate base.
2. 4" thick hot asphalt concrete, placed and compacted in two, 2" lifts with 1/2" medium asphalt concrete. All edges shall receive a bituminous tack prior to placing hot A.C.
3. All materials and compaction shall conform to the County Standard Specifications.

NOTICE: INDIAN BURIAL SITES

Upon discovering or unearthing any burial sites as evidenced by human skeletal remains or artifacts, the person making such discovery shall immediately notify the County Coroner at (408) 783-1900 and the Office of Human Relations at 289-2208. No further disturbance of the site may be made except as authorized by the County coordinator of Indian affairs in accordance with provisions of state law and Chapter 2, Division B6 of the County Ordinance Code.

UNDERGROUND UTILITIES

Notify U.S.A. Location Service at 800-227-2600, 48 hours prior to any trenching or excavations in the road right-of-way.

DETOURS: For information regarding detours, contact Roads Engineering at 289-2372

MATERIAL SUBMITTALS

Material submittals are required, in accordance with the County's Standard Specifications, Section 85.01.04 "Submittals", for work involving County maintained signals, lighting and electrical systems. Submittals shall be furnished to the County Roads and Airports Department's right of way project inspector. Materials furnished and/or installed without the Roads and Airports Department's prior approval may be subject to rejection and/or removal at the permittee's expense.

**ATTACHMENT 1**  
**Metcalf Gas Pipeline**  
**Description 16" crossing of Malech Rd**

The Metcalf gas pipeline will transport a maximum of 110 MMSCFD of natural gas at a maximum pressure of 740 psig from PG&E Line 300A to the Metcalf Energy Center in San Jose, CA. The pipeline will be designed in accordance with Code of Federal Regulations, Title 49, Part 192. The pipeline will not be installed in a casing. The carrier pipe will be 16" O.D. with a wall thickness of 0.250" which satisfies Class 3 location requirements. For corrosion protection, the pipe will be externally coated with fusion-bonded epoxy ("FBE"). A scratch-resistant coating, Powercrete or equivalent, will be applied to protect the FBE coating from potential gouging or peeling in the jack and bore operation. The pipeline will be further protected with a Cathodic protection system.

The crossing of Malech Rd will be a conventional bore and jack method. The total bore length is approximately 180 meters (600 feet), extending from the Custody Transfer Measurement Station east of Malech Rd, across Malech Rd and both lanes of Highway 101 into County of Santa Clara property. The minimum depth of cover within the Malech Rd right-of-way from final ground line to top of pipe will be 1.5 meters (5 feet).

There will be no surface activities inside the Malech Rd ROW. The bore pit, measuring 24.4m x 6.1m x 2.4m deep (80 feet by 20 feet x 8 feet), will be located on the east side of Malech Rd in the area planned for the Custody Transfer Measurement Station. The receipt pit, measuring 24.4m x 6.1m x 2.4m deep (80 feet x 20 feet x 10 feet deep), is on the west side of the southbound lane, outside the Caltrans ROW. The receipt pit will be sited along a largely abandoned portion of Coyote Ranch Road. Installation of the bore and jack crossing is estimated to be completed in approximately two weeks.

Access to the proposed pipeline ROW, for construction equipment, materials, and personnel, will be by existing roads - no new access roads will be required.

The pipeline will be welded in accordance with API 1104. All butt welds will be 100% radiographically inspected. The carrier pipe will be hydrostatically tested per the project drawings. Test pressures and duration shall meet or exceed those specified in the applicable design codes. The piping system will be dewatered and dried to the project specification after the hydrotest. The construction sites will be left clean and tidy and in a similar condition to what it was prior to the commencement of boring operations. Pipeline markers will be installed on either side of the right-of-way in accordance with DOT regulations. As-built drawings will be developed at the conclusion of the job.

Department of Planning and Development  
Roads and Airports Department

SP#02-12

## TRANSACTION RECORD

VALIDATE: PROJECT: MIECH RD.

NAME CALDINE CORPORATION  
ADDRESS 50 V. SAN FERNANDO ST  
CITY SAN JOSE ZIP 95113

CASH  CHECK

## TRANSACTION

AMOUNT \$

## ROADS &amp; AIRPORTS DEPARTMENT

<input checked="" type="checkbox"/>	Enforcement Permit Fees	454.00
<input type="checkbox"/>	Oversize Vehicle Permit Fees	
<input type="checkbox"/>	House Moving Permit Fees	
<input type="checkbox"/>	Delayed Improvement Agreement	
<input type="checkbox"/>	Performance Bond	
<input type="checkbox"/>	Miscellaneous Fees	

## TOTAL R&amp;A FEES

## PLANNING &amp; DEVELOPMENT

<input type="checkbox"/>	Improvement & Grading Plan Ok. Fee
<input type="checkbox"/>	Construction & Grading Inspection Fee
<input type="checkbox"/>	Easement Abandonment Fee
<input type="checkbox"/>	Map Review Fee
<input type="checkbox"/>	Miscellaneous Fees

## PLANNING/DEV. TRUST FUND FEES

<input type="checkbox"/>	Recording Fee
<input type="checkbox"/>	Deed of Control Recording Fee
<input type="checkbox"/>	Grading Perform. Bond (Cash or Check)
<input type="checkbox"/>	Assessment District Fee
<input type="checkbox"/>	Construction Performance
<input type="checkbox"/>	Labor & Materials Bond (Cash or Check)
<input type="checkbox"/>	Time Certif./Passbook (Do not put through credit register)

## TOTAL PLANNING &amp; DEVELOPMENT FEES

COMPLETED BY:	DATE	TOTAL AMOUNT \$	TRUST FUND PAYOUT AUTHORIZED BY:	AMOUNT OF PAYOUT \$	DATE OF PAYOUT
<i>Paul C Nguyen</i>	3/8/02	454.00			

5605 REV 1/97

Not an Official Receipt

## LAND DEVELOPMENT FILE INFORMATION

STREET \_\_\_\_\_

APPLICANT \_\_\_\_\_

FILE NUMBER \_\_\_\_\_

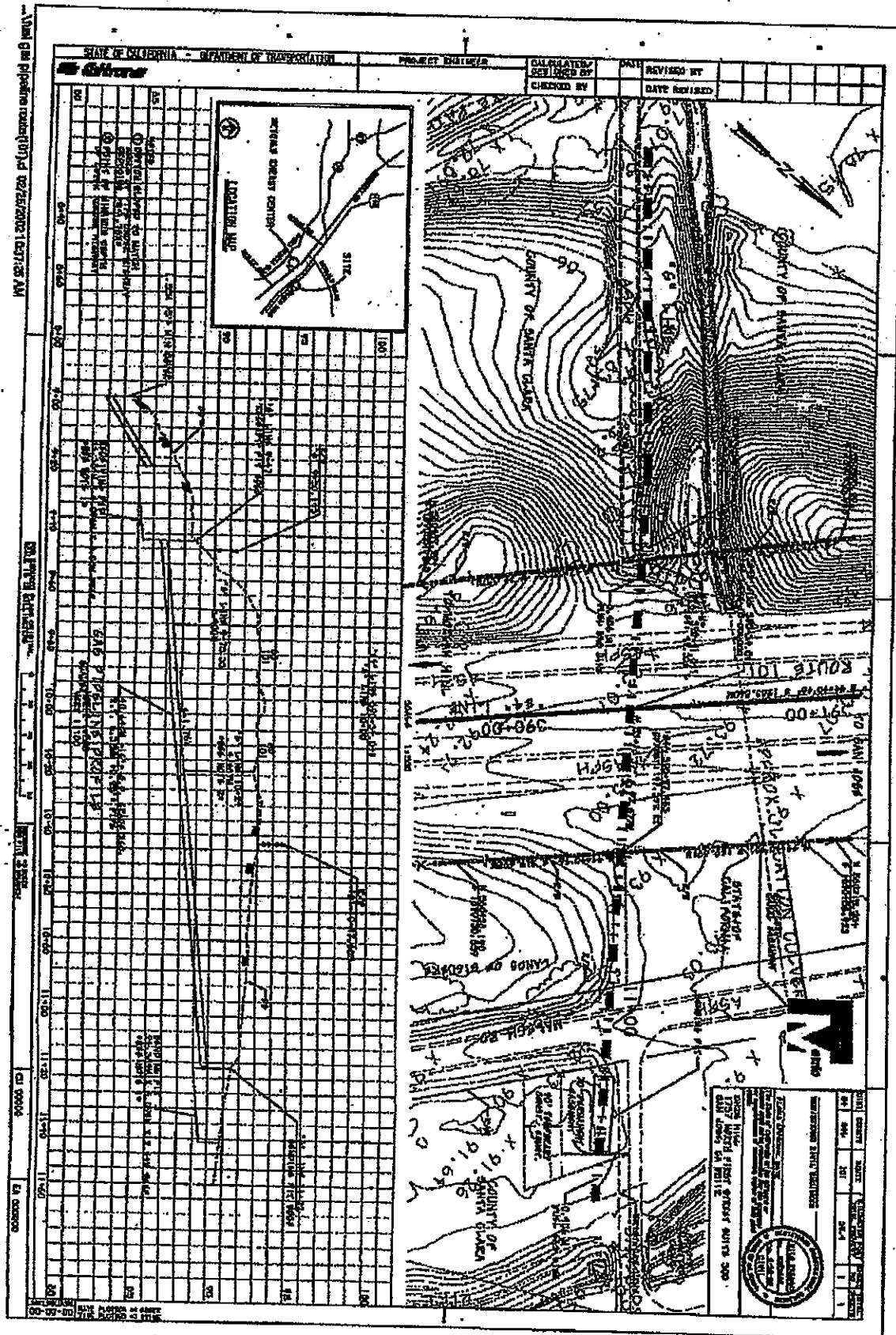
PERMIT NUMBER \_\_\_\_\_ Transaction \_\_\_\_\_ Amount \$ \_\_\_\_\_

- Single Building Site
- Grading Permit
- Major Subdivision
- Minor Subdivision
- Cluster Development
- Architect & Site Approval
- Special Permits
- Other

REMARKS \_\_\_\_\_

CHECK

FOR DEPOSIT ONLY



## **COMPLIANCE MATRIX**

**METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21**

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date to CPM/CBO	Date submitted to CPM/CBO	Status by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
START OF CONSTRUCTION	9/1/2002	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-1	Minimize emissions of carbon monoxide (CO) and nitrogen oxides (NOx) from S-1 and S-3 GTs; and S-2 and S-4 HRSGs.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-2	Tune combustors of S-1 & S-3 GTs and S-2 and S-4 HRSGs duct burners to minimize emissions of CO and NOx.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-3	Install, adjust, and operate A-1 and A-2 SCR systems to minimize emissions of CO and NOx from S-1 and S-3 GTs and S-2 and S-4 HRSGs.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-4	With steady-state operation of A-1 & A-2 SCR systems shall comply with NOx and CO emission limitations.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-5	Submit plan to DPSD and CPM describing procedures to be followed during commissioning of GTs, HRSGs, and STGs.	At least 28 days prior to first firing of the gas turbines, submit a complete commissioning plan	28 days prior to first fire of Gas Turbines			
AQ-6	Demonstrate compliance with conditions 3-10 through the use of properly operated and maintained CEMs and data recorders.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-7	Install, calibrate, operate District approved CEMS monitors prior to first firing of GT's and HRSGs.	In Monthly Compliance Report indicate how this condition is being implemented.	Monthly Compliance Report			
AQ-8	Total no. of firing hours for S-1 GT and S-2 HRSG without abatement of A-1 SCR shall not exceed 300 hours during commissioning.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to CPM.	Monthly Compliance Report			
AQ-9	Total no. of firing hours for S-3 GT and S-4 HRSG without abatement of A-3 SCR shall not exceed 300 hours during commissioning period.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report			
AQ-10	Total mass emissions of NOx, CO, POC, PM10, and SO2 emitted by the GTs and HRSGs during the commissioning period shall accrue towards the consecutive 12-month emission limitations.	In the MCR indicate the cumulative number of firing without SCR. Submit a copy of the completion notice to the CPM.	Monthly Compliance Report			
AQ-11	Combined daily emissions from GTs and HRSGs shall not exceed the following during the commissioning period: NOx = 4805; CO = 11,498; POC = 495; PM10 = 468; SO2= 42.	In the monthly compliance report indicate any violations of the emission limits	Monthly Compliance Report			
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	20 working days before the execution of the source tests, submit to the District and CPM a detailed source test plan designed to satisfy the requirements of this condition.	20 days prior to source test per AQ-12			
AQ-12	Submit to District and CPM a detail source test plan and conduct District and CEC approved source test using external CEMs to determine compliance with Condition 21.	Source test results shall be submitted to the District and the CEC CPM within 30 days of the source testing date.	Within 30 days of source tests per AQ-12 complete			
AQ-12	Notify the District and the CEC CPM.	Notify the District and the CEC CPM.	Within seven (7) working days prior to the planned testing date			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
AQ-13	GTs (S-1, S-3) and HRSG (S-2, S-4) shall be fired exclusively on natural gas. (BACT for SO2 and PM10)	As part of the semianual Air Quality Reports, indicate the date, time, and duration of any violation of this condition.	Semianual Air Quality Reports			
AQ-14	Combined heat input rate of each power train (S-1 & S-2, S-3 & S-4) shall not exceed 2,124 MMBtu/hr (3-hour rolling average). (PSD for NOx)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this hourly limit.	Monthly Air Quality Reports			
AQ-15	Combined heat input rate of each power train (S-1 & S-2 and S-3 & S-4) shall not exceed 49,908 MMBtu/day (PSD for PM10)	As part of the Air Quality monthly Reports, include information on the date and time when the hourly fuel consumption exceed this daily limit.	Monthly Air Quality Reports			
AQ-16	Combined cumulative heat input rate of GT's (S-1, S-3) and HRSGs (S-2, S-4) shall not exceed 35,274,050 MMBtu/yr. (Q-fisors)	As part of the Air Quality annual Reports, include information on the date and time when the annual cumulative fuel consumption exceed this annual limit.	Annual Air Quality Reports			
AQ-17	HRSGs (S-2, S-4) duct burners shall not be fired unless associated GTs (S-1, S-3) are in operation. (BACT for NOx)	As part of the Air Quality Reports, include information on any date, time, and duration of any violation of this permit condition.	Monthly Air Quality Reports			
AQ-18	GT/HRSG (S-1/S-2) shall be abated by the A-1 SCR system whenever fuel is combusted in these units and the A-1 catalyst bed has reached min. operating temperature.	As part of the semianual Air Quality Reports, provide information on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semianual Air Quality Reports			
AQ-19	GT/HRSG (S-3/S-4) shall be abated by the A-2 SCR system whenever fuel is combusted in these units and the A-2 catalyst bed has reached min. operating temperature.	As part of the semianual Air Quality Reports, provide info. on any major problem in the operation of the Oxidizing Catalyst and Selective Catalytic Reduction Systems for the Gas Turbines and HRSGs.	Semianual Air Quality Reports			
AQ-20(a)	Emission requirements: Emission Point P-1: NOx = 19.2 lbs/hr [0.00904 lbs/MMBtu (HHV) of nat. gas fired]; Emission Point P-2: NOx = 19.2 lbs/hr [0.00904 lbs/MMBtu (HHV) of nat. gas fired].	As part of the semianual Air Quality Reports, indicate the date, time, and duration of any violation. include quantitative info. on the severity of the violation.	Semianual Air Quality Reports			
AQ-20(b)	NOx Emission concentration = 2.5 ppmvd (corrected to 15% O <sub>2</sub> ), 1-hr average (Emission Point P-1, P-2) (BACT for NOx).	Same as above	Semianual Air Quality Reports			
AQ-20(c)	CO mass emission = 28.07 lbs/hr (at any 3-hour rolling avg.) (Emission Point P-1, P-2).	Same as above	Semianual Air Quality Reports			
AQ-20(d)	When the heat input to a CT exceeds 17,000 MMBTU/hr (HHV), the CO emission concentration shall not exceed 6.0 ppmvd on dry basis and the CO mass emission rate shall not exceed 0.0132 lb/MMBTU at any 3-hr rolling average.	Same as above	Semianual Air Quality Reports			
AQ-20(e)	Ammonia (NH <sub>3</sub> ) emission concentration shall not exceed 5 ppmvd on dry basis, at any 3-hour rolling avg. Ammonia injection rate to A-1, A-2 to be verified through continuous recording of rate.	Same as above	Semianual Air Quality Reports			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		9/14/2002				
Condition No.	Requirements & Task Summary		Action required	Event	Required Submittal Date to CPMICBO	Date approved by CPMICBO
					Status	Comments
AQ-20(f)	Precursor organic compounds (POC) mass emissions (as CH <sub>4</sub> ) shall not exceed 2.7 lbs/hr or 0.00126 lbs/MMBTU of natural gas fired. (Emission points P-1, P-2).	Same as above		Semiannual Air Quality Reports		
AQ-20(g)	Sulfur dioxide (SO <sub>2</sub> ) mass emissions at P-1, P-2 each shall not exceed 1.28 pounds per hour or 0.006 lb/MM BTU of natural gas fired. (BACT)	Same as above		Semiannual Air Quality Reports		
AQ-20(h)	PM10 mass emission's at P-1, P-2 each shall not exceed 9 pounds per hour or 0.00452 lb PM10/MM BTU. Particulate matter (PM10) mass emissions at P-1, P-2 each shall not exceed 12 pounds per hour or 0.00565 lb PM10/MM BTU, when HRSG duct burners are in operation.	Same as above		Semiannual Air Quality Reports		
AQ-21	GT (S-1, S-3) Start-up and Shutdown emission rates	Same as above		Semiannual Air Quality Reports		
AQ-22	Not more than one GT (S-1, S-2) shall be in start-up mode at any one time.	In the monthly compliance report indicate how this condition is being implemented.		Monthly Compliance Report		
AQ-23	HRSGs and ducting shall be designed such that an oxidation catalyst shall be readily installed if deemed necessary by APCO to insure compliance with CO emissions rates.	In the semiannual compliance report indicate how this condition is being implemented		Semiannual Air Quality Reports		
AQ-24	Total combined emissions in lbs/day, from GTs and HRSGs (S-1, S-2, S-3, S-4), including start-up and shutdown.	As part of the semiannual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.		Semiannual Air Quality Reports		
AQ-25	Cumulative combined emissions in tons/any consecutive 12-month period, from GTs and HRSGs shall not exceed NOx = 123.4 (offsets), CO=588, POC=28 (offsets), PM10=91.3 (offsets), SO2=10.6 (cumulative increase).	As part of the semiannual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation.		Semiannual Air Quality Reports		
AQ-26	Maximum projected combined annual toxic air contaminant emissions from GTs and HRSGs (S-1, S-2, S-3, S-4): (a) formaldehyde = 3,796 lbs/yr (b) Benzene = 480 lbs/yr (c) PAHs=22.8 lbs/yr	As part of the annual Air Quality Reports, indicate the date, duration, and severity of any violation including quantitative information on the severity of the violation.		Annual Air Quality Reports	Within 60 days of source test date	
AQ-26	Perform health risk assessment using emission rates per BAAQMD approved procedures and submit risk analysis to District and CRM.	As part of the annual Air Quality Reports, indicate the date of any violation of this condition including quantitative information on the severity of the violation or submit risk analysis to District and CRM.		Annual Air Quality Reports		
AQ-27 (a-d)	Demonstrate compliance with conditions 14-17, 20(a-d), 21, 22, 24(e), 24(b), 25(e), 25(b) by using continuous monitors during all operating hours for the following parameters.	As part of the annual Air Quality Reports, indicate the date of any violation of his condition including quantitative information on the severity of the violation.		Annual Air Quality Reports		

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING						
1/14/2002						
START OF CONSTRUCTION						
9/1/2002						
AQ-27(e-f)	Use parameters in condition 27(a-d) and District approved methods to calculate the following. (e) Heat input rate for S-1 & S-2 combined, and S-3 & S-4 combined (f) Corrected NOx and CO concentrations and mass emissions at each exhaust point (P-1, P-2).	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-27(g-i)	For each source, source grouping, or exhaust point record parameters at least once every 15 minutes and calculate and record for the following. Refer to AQ-27 for further details.	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-28(a-b)	Demonstrate compliance with conditions 20, 21, 24, 25 by calculating and recording on a daily basis POC, PM10, and SO2 mass emissions fine PM10 and SO2 from each power train.	As part of the monthly Air Quality Reports, the owner/operator shall indicate the date of any violation including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-29	Calculate and record on annual basis the projected annual emissions of formaldehyde, benzene, Specified Poly-Aromatic Hydrocarbons (PAHs),...	As part of the annual Air Quality Reports, indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Annual Air Quality Reports			
AQ-30	Within 60 days of startup, conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Source test protocols shall be submitted at least 90 days before startup. Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	90 days before startup			
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Conduct test within 60 days of startup	Within 60 days of startup			
AQ-30	Conduct a District-approved source test on exhaust points P-1 or P-2 to determine the corrected ammonia concentration to determine compliance with condition 20(e).	Submit source test results to the District and to the CEC CPM.	Within 30 days of the tests			
AQ-30	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Notify the District and the CEC CPM.	Within seven working days before the execution of the source tests.			
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Submit source test protocols, Approval of the source test protocols and the source test reports shall be deemed as verification for this condition.	90 days before startup			
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Conduct test within 60 days of startup and on annual basis thereafter.	Within 60 days startup			
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Notify the District and the CEC CPM.	Within seven (7) working days before the execution of the source tests			
AQ-31	Conduct a District-approved source test on exhaust points P-1 and P-2 while each GT and HRSG are operating at max load.	Submit source test results to the District and to the CEC CPM.	Within 30 days of the date of the tests			

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
AQ-32	Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests.	Provide a copy of source test protocol.	90 days before startup				
AQ-32	Obtain approval for all source test procedures from District Source Test Section and CPM prior to conducting tests.	Notify the District's Source Test Section and the CEC CPM in writing of the Source Test Protocols and projected test dates at least 7 days prior to the testing date(s).	7 days prior to testing date(s)				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Notify the District and the CEC CPM at least 7 working days before the owner/operator plans to conduct source testing as required by this condition.	Execution of the Source Tests				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Conduct test.	Within 60 days of startup and on biennial basis thereafter				
AQ-33	Conduct a District-approved source test within 60 days of startup on each exhaust point (P-1, P-2). Also test the GTs at minimum load.	Source test results shall be submitted to the District and the CEC CPM.	Within thirty (30) days of conducting the test				
AQ-34	Submit all reports as required by District Rules or Regulations and in accordance with all procedures and time limits.	Submit a copy of test protocols at least 90 days before startup.	90 days before startup				
AQ-35	Maintain records and reports on site for a minimum of 5 years.	During site inspection, make all records and reports available to the District, California Air Resources Board, and CEC staffs.	AQ Inspection per AQ-35				
AQ-36	Notify District and CPM of any violations of these permit conditions.	Submittal of these notifications as required by this condition is the verification of these permit conditions.	Violation of Permit Conditions				
AQ-37	Stack height of emission points (P-1, P-2) shall be at least 145 feet above grade at the stack base. (GT/HRSG stack height).	Submit the drawings for review and approval.	45 days prior to the release to the manufacturer	7/15/02	7/23/02	Submitted	
AQ-38	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	120 days before initial operation, submit to the BAAQMD and the CEC CPM a plan for the installation of stack sampling ports and platforms.	120 days before Initial Operation	2/1/04			
AQ-38	Provide adequate stack sampling ports and platforms to enable the performance of source testing.	Within 60 days of receipt of the plant, the BAAQMD will advise the Owner/Operator and the CPM of the acceptability of the plan.	Approval by BAAQMD and CPM after submittal				
AQ-39	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Contact the BAAQMD Technical Services	Within 180 days of issuance of Authority to Construct		8/1/02	7/29/02	In progress
AQ-39	Contact the BAAQMD Technical Services division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests.	Notify the CEC CPM at least seven (7) working days before these contacts are made.	7 days before contacts are made		8/5/02	2/28/02	N/A Complete
AQ-40	Demonstrate valid ERCS in the amount of 212.75 tons/year of NOx and 28 tons/yr of POC or equivalent as defined by District Regs 2-2-302.1 and 2-2-302.2	No more than 30 days after issuance of an Authority to Construct, provide a copy of the ATC to the CEC CPM for review.	Within 30 days after issuance of Authority to Construct		3/15/02	2/22/02	N/A Complete

NETCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CSO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
AQ-41	Provide to District valid ERC banking certificates in the amount of 212.75 ton/yr of Nox and 28 tons/yr of POCS or equivalent.	At least 30 days prior to the start of construction, submit a copy of the required offset or ERCS certificates to the CPM.	30 days prior to start of construction	8/2/02	7/26/02	N/A
AQ-42	Submit an application to the BAACQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.	Submit an application to BAACQMD major facility review permit. Notify the CEC CPM of the submittal of this application.	Within 12 months of issuance of PSD Permit		1/9/02	N/A
AQ-42	Submit an application to the BAACQMD for a major facility review permit within 12 months of the issuance of the PSD permit for the MEC.	Submit to the CPM a copy of the Federal Title VI Operating Permit.	30 days after permit issued			Expect to receive permit in June 2003.
AQ-43	Submit an application to the District for a Title IV operating permit at least 24 months prior to the initial operation of any GTs or HRSGs.	Submit to the CPM a copy of the application for the Title IV operating permit.	24 months before initial operation		8/1/01	
AQ-44	Comply with the continuous emission monitoring requirements of 40 CFR Part 175.	Submit to the CPM a plan on how the measurements and recordings required by this condition will be performed.	60 days before initial Operation			
AQ-45	Take monthly samples of natural gas combusted at MEC and analyze these samples for sulfur content using District-approved lab methods.	Maintain on site the records of all the guarantees received from its natural gas suppliers indicating that the fuel delivered to MEC complies with the 40 CFR Part 60, Subpart GG.	On-site Compliance Inspections			
AQ-46	Cooling towers shall be properly maintained to minimize drift losses.	Submit a performance guarantee letter from the cooling tower manufacturer.	30 days prior to installation of Cooling Tower per AQ-46			
AQ-47a	Perform visual inspection of cooling tower drift eliminators once per calendar year and repair or replace any drift eliminators which are broken or missing.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Monthly Air Quality Reports			
AQ-47b	Have cooling tower representative inspect the cooling tower drift eliminators and certify installation was performed in a satisfactory manner.	Have cooling tower representative inspect the cooling tower drift eliminators and certify Installation.	Initial Operation,			
AQ-47c	Perform an initial performance source test to determine the PM10 emission rate from the cooling tower to verify compliance with the vendor-guaranteed drift rate.	As part of the monthly Air Quality Reports, indicate the date of any violation of this Condition.	Within 60 days of initial operation of the cooling tower			
AQ-48	Implement a CPM approved Fugitive Dust Control Plan during construction.	Submit the plan to the CEC CPM for review and approval.	60 days prior to start of construction	6/12/01	6/12/01	Complete
AQ-48	Implement a CPM approved Fugitive Dust Control Plan during construction.	Maintain daily records to document the specific actions taken pursuant to the plan. Summary of activities in MCR.	Monthly Compliance Report			On-going
AQ-49	During construction owner shall:	The project owner shall maintain a daily log during the construction phase of the project. The logs shall be made available to the CEC CPM upon request.	Start of Construction			On-going
AQ-50	Identify the source of the fugitive dust and implement one or more of the appropriate control measures specified in Table 3.	Maintain a daily log recording the dates and times that measures have been implemented and make them available to the CEC CPM upon request.	Start of Construction			On-going

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	Provide the District with valid ERC certificates for PM10 for the amount of 29.21 tons per year and for VOC for the amount of 124.2 tons per year from the sources noted in Condition 51.	At least 30 days prior to the start of construction, the project owner must submit a copy of the required ERC certificates to the CPM and the District.	30 days prior to start of construction	8/2/02	7/26/02	N/A
START OF CONSTRUCTION	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit to the CPM for approval the qualifications of the CMM at least 45 days prior to due date for diesel construction equipment.	45 days prior to rough grading	11/30/01	8/27/01	Complete
AQ-51	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Construction Equipment Mitigation Plan 30 days prior to rough grading or construction of linear facilities.	30 days prior to rough grading	12/15/01	9/7/01	Complete
AQ-52	The project owner shall mitigate, to the extent practical, construction related emission impacts from off-road, diesel fired construction equip. Details of Plans shown in Condition AQ-52.	Submit Report of Change to the CPM no later than 10 working days after use of equipment on site.	10 days after use of equipment on site			
AQ-53	The heat input to the fire pump diesel engine shall not exceed 211 MM BTU totalled over any consecutive twelve month period.	As part of the monthly Air Quality Reports, Indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-54	The total hours of operation of the emergency generator shall not exceed 200 hours per calendar year, plus an additional 100 hours per calendar year for the purposes of maintenance and testing.	As part of the monthly Air Quality Reports, Indicate the date of any violation of this Condition including quantitative information on the severity of the violation.	Monthly Air Quality Reports			
AQ-55	Install an oxidation catalyst to control VOC emissions.	As part of its final design plans, specifications, and drawings, submit to the District and the CPM for review and approval the final selection and design details of combustion equipment, including emission systems.	Submittal of final design plans			In progress
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	Prior to initial operation			
Public Health-1	Perform a visual inspection of the cooling tower drift eliminators once per calendar year. Prior to initial operation of the project, have the cooling tower vendor's field representative inspect the cooling tower drift eliminator and certify that the installation was performed in a satisfactory manner.	The project owner shall include the results of the annual inspection of the cooling tower drift eliminators and a description of any repairs performed in the next required compliance report.	Annual Compliance Report			

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a copy of the Project Construction Safety and Health Program and the Personal Protective Equipment Program, with a copy of the cover letter transmittal of the programs to Cal/OSHA.	30 days prior to start of construction	8/2/02	9/27/01 (Bechtel)	2/1/02(Bechtel)	Resubmitted for Mortenson. OSHA Consultation completed 2/21/02. Submitted OSHA approval of Mortenson Plan 3/12/02.
WORKER SAFETY 1	Project Construction Safety and Health Program, containing the following: A Construction Injury and Illness Prevention Program, A Construction Fire Protection and Prevention Plan, A Personal Protective Equipment Program.	Submit to the CPM a letter from the San Jose Fire Department stating that they have reviewed and accepted the Construction Fire Protection and Prevention Plan.	30 days prior to start of construction	8/2/02	7/31/01	2/1/02	Response to Fire Dept. comments submitted 4/9/02.
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	The Plan shall be submitted to the Cal/OSHA Consultation Service, for review and comment concerning compliance of the program with all applicable Safety Orders	Start of Operation				
WORKER SAFETY 2	Project Operation Safety and Health Plan containing the following: Operation Injury and Illness Prevention Plan, Emergency Action Plan, Operation Fire Protection Plan, Personal Protective Equipment Program.	Submit to the CPM a copy of the final version of the Project Operation Safety & Health Program with a copy of the cover letter to Cal/OSHA's Consultation Service, and San Jose Fire Department comments stating that they have reviewed and accepted the specified elements of the Plan.	30 days prior to start of operation				
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	Provide the CPM with a copy of an agreement with the City of San Jose Fire Department or shall provide an interim plan to address impacts until a permanent agreement can be reached.	60 days prior to ground disturbance	11/15/01	7/20/01	2/1/02	Complete
WORKER SAFETY 3	Reach an agreement with the San Jose Fire Dept on the amount of fees and timing of payment they will provide to cover project-specific impacts associated with worker safety and fire protection.	If an agreement cannot be reached at least 60 days prior to construction, the project owner will inform the CPM and propose a plan to mitigate impacts on fire services.	60 days prior to ground disturbance	11/15/01	7/20/01	2/1/02	Complete
TLSN-1	The project owner shall construct the proposed transmission line according to the requirements of Section 2700 through 2974 of the California Code of Regulations and PG&E's EMF-reduction measures.	Submit to the CPM a letter affirming that the transmission line will be constructed according to the requirements.	30 days prior to start of construction of Transmission Line				
TLSN-2	Identify and correct any complaints of interference with radio and TV signals from operation of line and facilities.	All reports of line-related complaints shall be summarized and included for 5 years in the Annual Compliance Report to the CPM.	Annual Compliance Report				
TLSN-3	Engage a qualified consultant to measure the strengths of the line electric and magnetic fields in the project owner's 240-foot section before and after the 250 kV line is energized.	File copies of the pre-and post energization measurements with CPM. These measurements shall be completed within 6 months of the start of the operations.	60 days after completion of measurements				

METGALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		1/14/2002				
START OF CONSTRUCTION		9/1/2002				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPMICG	Date approved by CPMICG
						Status/Comments
TLSN-4	Ensure that the transmission line right-of-way is kept free of combustible material.	Provide a summary of inspection results and any fire prevention activities carried out along the ROW in the annual compliance report.	Annual Compliance Report			
TLSN-5	Ensure the grounding of any ungrounded permanent metallic objects within the right-of-way of the overhead section.	Transmit to the CPM a letter confirming compliance with this Condition	30 days prior to energization of transmission line			
HAZ-1	Do not use any hazardous material in reportable quantities, not listed in Attachment 1 or in greater quantities or strengths than those identified unless approved in advance by Santa Clara County and the CPM.	Provide to the CPM and Santa Clara County, in the Annual Compliance Report, a list of hazardous materials contained at the facility in reportable quantities.	Annual Compliance Report			
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the U.S. EPA.	60 days prior to delivery of Aqueous Ammonia			
HAZ-2	Provide a Risk Management Plan to Santa Clara County and the CPM for review at the time the plans are first submitted to the EPA.	Include all recommendations of Santa Clara County and the CPM in the final document. At least 60 days prior to the delivery of aqueous ammonia to the facility, provide the final approved plans listed above to the CPM.	60 days prior to delivery of Aqueous Ammonia			
HAZ-3	Develop and Implement a safety management plan for delivery of ammonia.	Provide a safety management plan as described above to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia			
HAZ-4	The aqueous ammonia storage facility shall be designed to either the ASME Pressure Vessel Code and ANSI / ASME I H61.6 or to API 620.	Submit final design drawings and specifications for the ammonia storage tank and secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of Aqueous Ammonia			
HAZ-5	Provide a covered secondary containment basin to passively contain any spill during the delivery of aqueous ammonia to the storage facility.	Provide detailed design drawings and specifications for the secondary containment basin to the County of Santa Clara and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to construction of ammonia secondary containment			
HAZ-6	The project owner shall require that the gas pipeline undergo a complete design review and detailed inspection every 30 years and each 5 years thereafter.	Provide a detailed plan to accomplish a full and comprehensive pipeline design review in the future to the CPM for review and approval.	30 days prior to initial gas flow in pipeline			
HAZ-7	Prepare and implement a pipeline maintenance plan.	Provide a detailed plan to accomplish a full and comprehensive pipeline inspection in the event of an earthquake to the CPM for review and approval.	30 days prior to initial gas flow in pipeline			

NETCALE ENERGY CENTER COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPN/CBO	Date approved by CPN/CBO
HAZ-8	The project owner shall direct all vendors delivering any hazardous material to the site to use only the route approved by the CPM.	At least sixty (60) days prior to receipt of any hazardous materials on site, the project owner shall submit copies of the required transportation route limitation to the County of Santa Clara and City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of hazardous materials			
HAZ-9	The natural gas pipeline shall be designed to meet CPUC General Order 112-D and 58-A standards, or any successor standards, and will be designed to meet Class III service.	Submit design and operation specifications to the CPM for review and approval.	Prior to initial gas flow in pipeline			
HAZ-10	Design and operate the facility to ensure that no fuels or lubricants are permanently or temporarily stored within 100 feet of the sulfuric acid tank.	Provide copies of the facility design drawings showing the location of the sulfuric acid storage tank and the route for transport.	60 days prior to delivery of Sulfuric Acid			
HAZ-11	The project owner shall direct all vendors delivering aqueous ammonia to the site to use only transport vehicles which meet or exceed the specifications of the DOT MC-307 tanker trucks.	Submit copies of the notification letter to supply vendors indicating the transport vehicle specifications to the CPM for review and approval.	60 days prior to receipt of aqueous ammonia on site			
HAZ-12	Design, construct, and operate the project in conformance with all applicable laws, ordinances, regulations, and standards pertaining to the transport, storage, and handling of hazardous materials.	Submit final design drawings and specifications for all hazardous material storage tanks and equipment to Santa Clara County and the City of San Jose for review and comment, and to the CPM for review and approval.	60 days prior to delivery of Hazardous Materials			
WASTE-1	Obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste.	Keep its copy of the identification number on file at the project site and notify the CPM via the monthly compliance report of its receipt.	Notify via Monthly Compliance Report	12/14/02	12/14/02	N/A
WASTE-1	The project owner shall obtain a Hazardous Waste Generator Identification Number from the Department of Toxic Substances Control prior to generating any hazardous waste. (Operation).	Keep copies of the ID number and permit on file and notify the CPM via the monthly compliance report of their receipt - (operation)	Notify via Monthly Compliance Report	12/14/02	12/14/02	Complete
WASTE-2	Upon becoming aware of any impending waste management-related enforcement action, notify the CPM of any such enforcement action.	Notify the CPM in writing within 10 days of becoming aware of an impending enforcement action.	Within 10 days of becoming aware of an impending enforcement action.			
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit the construction waste management plan to the CPM for review.	60 days prior to start of construction	7/3/02	6/1/201, 2/24/03, 5/23/03 (Infeas)	
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	Submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM	7/27/01, 3/7/03	7/27/01, 3/7/03	Complete, Submitted for Infeas.

## NETCALF ENERGY CENTER COMPLIANCE MATRIX

START OF MOBILIZATION/ROUGH GRADING		1/14/2002	
Condition No.	Requirements & Task Summary	Action required	Status/ Comments
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The operation waste management plan shall be submitted no less than 60 days prior to the start of project operation.	60 days prior to start of operation
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	The project owner shall submit any required revisions within 30 days of notification by the CPM (or mutually agreed upon date).	Revise within 30 days of notification by CPM
WASTE-3	Prepare and submit to the CPM a waste management plan for all wastes generated during construction and operation of the facility.	In the Annual Compliance Reports, document the actual waste management methods used during the year compared to planned management methods.	Annual Compliance Report
WASTE-4	Have a registered PE available for consultation during soil excavation and grading activities.	Submit the qualifications and experience of the Registered Professional Engineer or Geologist to the CPM for approval.	30 days prior to ground disturbing activity
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	Notify the CPM in writing within 5 days of any reports filed by the environmental professional.	Within 5 days of filing reports
WASTE-5	If potentially contaminated soil is unearthed during excavation the environmental professional shall inspect the site.	If significant remediation may be required, contact representatives of the Santa Clara County and Dept of Toxic Substances Control. Notify the CPM in writing within 5 days of any reports filed.	Within 5 days of filing reports
WASTE-6	Obtain a Hazardous Material Clearance Form from the Santa Clara County Hazardous Materials Compliance Division.	Provide an approved copy of the Hazardous Material Clearance Form to the CPM.	Prior to the start of construction
WASTE-7	The project owner shall perform additional limited investigations to fully characterize the site.	Prior to the start of construction, submit analytical results of the additional sampling to the CPM as a ESA Addendum.	Prior to the start of construction
WASTE-8	All site debris shall be removed from the site after owner has control of the site.	Notify the CPM in writing within ten days of removal of site debris.	Within 10 days after removal of site debris
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Monthly Compliance Reports provide updates on trail developments in the area around the site.	Monthly Compliance Report
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Submit to the City of San Jose Departments of Planning and Public Works for review of the trail design and maintenance plan.	Start of Construction of Trail
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Prior to the start of a trail that the MEC Trail could be connected to, submit designs and the maintenance plan to the CPM.	180 days prior to start of construction of trail
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	Notify the CPM that the trail segment has been completed and is ready for inspection.	Within 7 days after completion of trail segment
LAND-1	At such time as a connection to a trail network can be made, install and maintain the portion of the planned trail that would cross the site.	In the Annual Compliance Reports provide updates on trail developments in the area around the site.	Annual Compliance Report

**METCALF ENERGY CENTER COMPLIANCE MATRIX**

Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CP/MCBO	Date approved by CP/MCBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
LAND-2	Landscape the parking area consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Submit to the City of San Jose for review and comment and to the CPM for approval a revised landscape plan.	30 days prior to start of construction	8/2/02	8/7/02	6/24/03	Complete
LAND-2	The project owner shall landscape the parking area consistent with the "Orchard Planting" Guidelines of the North Coyote Valley Campus Industrial Area Master Development Plan.	Notify the CPM that the work has been completed and is ready for inspection.	7 days after completion of landscaping				
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the CPM for approval.	60 days prior to start of construction	7/30/02	9/20/2001 11/14/01 3/12/02	12/10/2001 3/26/02	Complete
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the boundaries are ready for inspection.	Prior to construction of specified facilities and structures		7/23/02 (cooling tower)	10/22/02 (cooling tower foundation only.)	
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Submit the final design plans to the San Jose review and comment.	60 days prior to start of construction	7/30/02	9/20/2001 3/12/02	N/A (City of San Jose)	Complete
LAND-3	The project owner shall design and construct the project to satisfy the setback requirements	Notify the CPM that the facilities and structures are completed and are ready for inspection.	7 days after completion of specified facilities and structures				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the CPM for approval a site plan that demonstrates that the project complies with the "Entry Identification" guidelines.	90 days prior to commercial operation				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Submit to the City of San Jose for review and comment a site plan.	90 days prior to commercial operation				
LAND-4	Ensure that any project directional signs, identity signs, and gatehouses comply with the "Entry Identification" guidelines.	Notify the CPM that these requirements have been satisfied and are ready for inspection.	Commercial Operation				
LAND-5	Acquire from the property owners (Passantino) immediately south of the MEC site a restrictive covenant agreement.	Submit to the CPM a recorded copy of the Agreement.	90 days prior to start of construction	6/3/02	6/12/01	9/14/01	Complete
LAND-5	Acquire from the property owners (Passantino) immediately south of the MEC site a restrictive covenant agreement.	Submit a landscape plan to the CPM for review and approval and the City of San Jose for review and comment.	Within sixty (60) days of sale of the Passantino property				
LAND-5	Acquire from the property owners (Passantino) immediately south of the MEC site a restrictive covenant agreement.	Notify the CPM that the landscaping has been completed and is ready for inspection.	7 days after completion of landscaping				
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the protective measures stated above will be applied prior to the delivery of any construction materials,	30 days prior to delivery of construction materials				
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Submit photographic evidence of the application.	7 days after completion of protective measures		3/14/02 5/10/2002	7/8/02	Complete
LAND-6	Ensure the protection of soil while using agricultural land as a construction laydown and parking area.	Notify the CPM that the agricultural field used as the laydown area has been tilled and shall submit photographs of the tilled field.	30 days prior to commercial operation				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		9/14/2002				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
LAND-7	Ensure that any additional construction laydown areas needed along all pipeline routes are located within existing paved or gravel areas.	Submit a detailed map showing the location of any planned laydown areas along the pipeline routes and photographs of the areas.	60 days prior to construction of pipelines			Option agreement signed 6/4/02. Will exercise option 45 days prior to construction of gas pipeline.
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit the plan to the Santa Clara County Parks and Recreation Department for review and obtain licenses and easements.	Prior to submittal to CPM			
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM a copy of all licenses and easements secured from Santa Clara County and submit to the CPM a plan that describes how construction activities will be limited to avoid permitted park events.	30 days prior to construction of gas pipeline			
LAND-8	Obtain all necessary licenses and easement rights from Santa Clara County to route the natural gas supply pipeline through the Coyote Creek Parkway.	Submit to the CPM an update of planned construction dates for the following week and a schedule of planned park events.	Weekly gas pipeline report	4/15/03		
LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Submit to the CPM for review and approval a site plan that shows the precise alignment of the water supply and waste water pipelines in relation to existing orchard trees.	60 days prior to construction of water supply and waste water pipelines			
LAND-9	Route the water supply and wastewater discharge pipelines through open agricultural areas to avoid the direct loss of orchard trees.	Notify the CPM that stakes have been installed and the route is ready for inspection.	7 days prior to ground disturbing activities related to pipeline construction			
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Submit a description of the procedure to minimize alteration of original soil stratigraphy.	30 days prior to ground disturbing activities related to pipeline construction			
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Notify the CPM of the schedule for trenching.	7 days prior to trenching for pipeline			
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Submit photographs to the CPM that demonstrates that the topsoil has been kept separate from the subsoil.	7 days after start of trenching for pipeline			
LAND-10	During pipeline construction, stockpiles excavated topsoil separate from subsoil in agricultural areas.	Notify the CPM of the schedule for backfilling.	7 days prior to backfilling trenches			
LAND-11	The heat recovery steam generator stacks shall be limited to 145 feet above finished Grade.	Submit the final design specifications to the CPM for review and approval.	60 days prior to start of construction			
TRANS-1	Comply with Caltrans and Santa Clara County limitation on vehicle sizes and weights.	Provide the number of any oversize and overweight transportation permits received during that reporting period.	Monthly Compliance Report			On-going
TRANS-2	Comply with Caltrans and County limitations for encroachment into public rights-of-way and shall obtain necessary encroachment permits.	Submit copies of any encroachment permits received during that reporting period in the Monthly Compliance Report.	Monthly Compliance Report			Caltrans encroachment permit for gas pipeline submitted in April Report.
TRANS-3	Ensure that all federal and state regulations for the transport of hazardous materials are observed.	Copies of all permits and licenses acquired concerning the transport of hazardous substances.	Monthly Compliance Report	5/14/02		

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CPMICBO	Date approved by CPMICBO
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	If the permanent crossing warning equipment is not in place , submit a traffic plan for the crossing to UPRR for review.	60 days prior to site preparation	11/15/01	8/16/01	8/16/01 Complete
TRANS-4	The project owner shall enter into a Crossing Agreement with UPRR.	Submit the executed Crossing Agreement to the CPM for approval.	60 days prior to site preparation	11/15/01	8/16/01	8/16/01 Complete
TRANS-4	Install railroad grade crossing warning equipment at the RR crossing for Blanchard Road.	Inform the CPM when the final grade crossing warning equipment is ready for inspection.	Installation of final grade crossing equipment	3/4/02	3/4/02	Submitted
TRANS-5	Consult with Santa Clara Co., San Jose, and Caltrans & prepare a Const. Traffic Control Plan and implementation program.	Provide to Santa Clara County, City of San Jose and Caltrans, and to the CPM, a copy of construction traffic control plan and implementation program.	30 days prior to start of site preparation	10/2/01, 12/9/02, 5/23/03 (liners)	10/24/01	Complete for site. Submitted for liners. Sent County comments.
TRANS-6	Repair roadways to original or as near original condition as possible. Refer to TRANS 6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these images.	Prior to start of site preparation	11/15/01	8/9/01	8/13/01 Complete
TRANS-6	Repair roadways to original or as near original condition as possible. Refer to TRANS 6 for further details	Photograph, videotape, or digitally record Monterey Rd. between Metcalf Rd. and Blanchard Rd. Provide the CPM, Santa Clara County and Caltrans with a copy of these images.	Start of ground disturbing activities related to pipeline construction			
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original condition as possible.	Notify Caltrans about the schedule for project construction.	60 days prior to site preparation	11/15/01	8/9/01	8/13/01 Complete
TRANS-6	Following completion of construction of the power plant and all related facilities, the project owner shall repair roadways to original or as near original condition as possible.	Meet with the CPM, Santa Clara County, the City of San Jose and Caltrans to determine actions necessary for repair of roadways.	30 days after completion of project construction			
TRANS-7	Prepare and submit a parking and staging plan for all phases of project construction.	Submit the parking and staging plan to the City of San Jose and Santa Clara County for review and comment, and to the CPM for approval.	60 days prior to start of site preparation	10/2/01	12/9/02, 5/23/03 (liners)	10/24/01 Complete for site. Submitted for liners. Sent County comments.
TRANS-8	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Contact the City regarding the status of the off-site portion of the Santa Teresa Boulevard connection and inform the CPM.	12 months prior to commercial operation	12/31/03		
TRANS-8	Prior to the start of commercial operation of MEC, the project owner shall complete a two-lane secondary access connection.	Notify the City and CPM that the portion of the Santa Teresa Boulevard connection constructed by MEC is ready for inspection.	60 days prior to commercial operation	11/2/04		
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	Notify residents and establish/post telephone number	15 days prior to start of rough grading	12/30/01	N/A	Complete
NOISE-1	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	A statement signed by the project manager attesting that the above notification has been performed.	Monthly Construction Report Following the Start of Rough Grading	2/14/02	N/A	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date to CPM/CBO	Date submitted by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	A statement signed attesting that notification was send to all residents within a 1-mile radius of the project.	15 days prior to the commencement of steam blow activity			
START OF CONSTRUCTION	Notify all residents and business entities within one mile of the site of the start of construction and operation of the project.	Transmit a statement signed by the project manager attesting that a notification was send to all residents within a one-mile radius of the project.	Monthly Construction Report Following the Steam Blow activity			
NOISE-1		File a copy of the Noise Complaint Resolution Form with City of San Jose and with the CPM documenting the resolution of the complaint.	30 days after receiving a noise complaint			
NOISE-2	Throughout the construction and operation, department, investigate, evaluate and attempt to resolve all project related noise complaints.	Submit to the CPM the above referenced program.	30 days prior to Rough Grading	12/15/01	6/12/01	Complete
NOISE-3	Submit to the CPM for review a Noise Control Program.	Submit to the CPM drawings describing the temporary steam blow silencer, and a description of the steam blow schedule.	15 days prior to first Steam Blow		7/27/01	Complete
NOISE-4	If a traditional high-pressure steam blow process is employed, equip steam blow piping with a temporary silencer.	Submit a summary report of the survey to City of San Jose and the CPM.	Within 30 days after completing survey			
NOISE-5	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	Submit to the CPM a summary report of a new noise survey.	Within 30 days of completion of installation of these measures			
NOISE-6	Conduct a 25-hour Community Noise Survey when first achieving an output of 80 percent of rated capacity.	The survey shall be conducted within thirty (30) days after the facility is operating at an output of 80% of rated capacity or greater.	Thirty days after the facility is operating at an output of 80% of rated capacity or greater.			
NOISE-6	The project owner shall conduct an occupational noise survey to identify the noise hazardous areas in the facility.	Submit the noise survey report to the CPM. The project owner shall also submit the report to OSHA upon request.	Within 30 days after completing the survey			
NOISE-7	Construction shall be restricted to the hours of 7 a.m. to 7 p.m. on weekdays and from 8 a.m. to 6 p.m. on weekends and holidays.	Transmit a statement certifying that the above construction of the project.	First Monthly Compliance Report	11/15/02	N/A	Complete
NOISE-7	The project owner shall implement typical noise source reduction measures such as silencers and acoustical enclosures for HDD.	Submit a plan for approval to the CPM to implement noise reduction measures for HDD.	30 days prior to commencing HDD.			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Submit proposed plan to the CPM for review and approval.	60 days prior to ordering first equipment that is color treated	8/1/02	8/1/02	Submitted for cooling tower color only. Comments received 8/28/02.
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	If the CPM notifies the project owner that any revisions of the plan are needed, shall submit to the CPM a revised plan.	Within 30 days of notification	9/22/02		Comments received 8/28/02. Will re-submit with VIS-9 submittal. See VIS-9 below.
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	Notify the CPM that all structures treated during manufacture and all structures treated in the field are ready for inspection.	Not less than thirty (30) days prior to the start of commercial operation			
VIS-1	Treat the project structures, buildings, and tanks visible to the public in a non-reflective color.	The project owner shall provide a status report regarding treatment maintenance in the Annual Compliance Report.	Annual Compliance Report			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
VIS-2	Any fencing for the project shall be non-reflective.	Submit the specifications to the CPM for review and approval.	At least 30 days prior to ordering the non-reflective fencing	6/1/04		
VIS-2	Any fencing for the project shall be non-reflective.	If the CPM notifies the project owner that revisions of the submittal are needed the project owner shall prepare and submit a revised submittal.	Within 30 days of receiving notification			
VIS-2	Any fencing for the project shall be non-reflective.	Notify the CPM that the fencing is ready for inspection.	Within 7 days after completing installation of the fencing			
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Provide the lighting plan to the CPM for review and approval and to the City of San Jose for review and comment.	Ninety (90) days before ordering the exterior lighting,	5/3/03	5/5/03	Submitted, comments received 5/29/03.
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	If the CPM notifies the project owner that any revisions of this plan are needed, shall submit to the CPM a revised plan.	Within 30 days of receiving notification	6/30/03	6/24/03	Submitted
VIS-3	Design and install all lighting such that light bulbs and reflectors are not visible from public viewing areas.	Notify the CPM that the lighting is ready for inspection.	Within seven (7) days of completing exterior lighting installation			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Submit the plan to the CPM for review and approval and to the City of San Jose or Santa Clara County for review and comment.	At least sixty days prior to beginning implementation of the surface restoration			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	If the CPM notifies the project owner that revisions of the submittal are needed, shall prepare and submit to the CPM a revised submittal	Within 30 days of receiving notification			
VIS-4	Restore any and all areas that are disturbed during the construction or operation of any portions of the proposed underground utilities.	Notify the CPM after completing the surface restoration that it is ready for inspection.	Within seven days after completing the surface restoration			
<b>Temporary Aesthetic Screen</b>						
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	N/A (City of San Jose)	Submitted. Comments rec'd from SJ incorporated prior to submit.
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the CPM for review and approval.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/01	2/15/02 (Aesthetic screen)
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of receiving notification	2/12/02	2/12/02	2/15/02

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Revised Submission Date	Date submitted to CPM/CBO	Status/ Comments
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	The temporary and long-term aesthetic screening installations are ready for inspection.	Within seven days after implementing the proposed plan	7/6/2002 (temporary screen)	7/1/2002 (temporary screen)	Submitted for temporary.
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit proposed plans to the City of San Jose for review and comment and CPM for review and approval.	At least ninety (90) days before intended removal of the temporary aesthetic screen			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of notification			
VIS-5	Immediately upon completion of construction of the project, the temporary aesthetic screening shall be removed and the construction laydown area shall be revegetated and restored to its original condition.	Notify the CPM that the temporary aesthetic screening removal is ready for inspection.	Within seven days after implementing the proposed plan			
<b>Long-term screen (Monterey, Road landscaping)</b>						
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the City of San Jose for review and comment.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	N/A (City of San Jose)	Submitted. Comments req'd from SJ Incorporated prior to submittal.
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit the proposed temporary and long-term aesthetic screening plans to the CPM for review and approval.	Ninety (90) days prior to the start of use of the construction laydown area	7/27/01	7/27/2001, 12/16/01	Revised Monterey Rd. plan submitted 12/16/01. Submitted City of San Jose comments to CEC on 9/28/02.
VIS-5	Implement the installation of temporary aesthetic screening along the south and east sides and any of the eastern portion of the north side of the construction laydown area. Install long-term aesthetic screening along the west side of Monterey Road.	Submit any required revisions within 30 days of notification by the CPM.	Within 30 days of receiving notification			City of San Jose comments being incorporated. As of 6/30/03, plans with City of San Jose for final review and signature.
VIS-6	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	Submit the plan to the CPM for review and approval and to the City of San Jose for review and comment.	At least sixty (60) days prior to installing the screening	5/1/04		

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	Submit any required revisions.	Within 30 days of notification			
START OF CONSTRUCTION	The project owner shall comply with the requirements of Policy 12 of the General Development Plan Standards of the Master Development Plan and Guidelines for the North Coyote Valley Campus Industrial Area re: screening of truck loading docks and storage and service areas.	The project owner shall notify the CPM when ready for inspection	Within seven days after completing installation of the screening			
VIS-6	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the City of San Jose and County of Santa Clara Parks and Recreation Department for review and comment.	90 days prior to start of construction	6/3/02	6/12/2001, 5/7/2003	Complete
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit the proposed aesthetic landscape screening plan to the CPM for review and approval.	90 days prior to start of construction	6/3/02	6/12/2001, 5/7/2003	Submitted
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Submit any required revisions	Within thirty (30) days of notification by the CPM.	7/1/03	6/17/03	Submitted
VIS-7	Install aesthetic landscape screening along a portion of Coyote Ranch Road.	Notify the CPM in writing that the aesthetic landscape screening installation is ready for inspection.	Within seven (7) days after completing the implementation of the proposed plan	6/3/02	6/12/2001, 5/7/2003	
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the County of Santa Clara Parks and Recreation Department for review and comment.	At least sixty (60) days before the beginning of construction of the gas metering station	2/1/04		
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit detailed design specifications for the gas metering station to the CPM for review and approval.	At least sixty (60) days before the beginning of construction of the gas metering station	2/1/04		
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Submit any required revisions.	Required revision within 30 days of notification by CPM.			
VIS-8	The gas metering station east of Highway 101 shall be designed in a manner that helps visually screen it from views from Highway 101 and integrate it with its surroundings.	Notify the CPM that the aesthetic treatment and landscape screening installation is ready for inspection.	Within seven (7) days after implementing the proposed plan			
VIS-8	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the City of San Jose for review and comment.	At least sixty (60) days prior to the start of architectural treatment			Complete
VIS-9						

METGALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action Required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Submit the proposed architectural design treatment plan to the CPM for review and approval.	At least sixty (60) days prior to the start of architectural treatment	10/2/02		Submitted. Comments received 10/31/02.
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Shall submit any required revisions.	Within thirty (30) days of notification by the CPM	11/30/02	11/25/02	Submitted. Received comments 2/10/03.
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Shall submit any required revisions.	Within thirty (30) days of notification by the CPM	3/10/03		Response to comments not yet submitted. Consultant revising visual simulations, will include color simulations for previous VS-1 submittal. Expect to submit revised plan in July 2003.
VIS-9	The power plant shall be designed in a manner that reduces its appearance as an industrial facility and helps visually integrate it with its surroundings.	Notify the CPM in writing that all structures are ready for inspection.	Thirty (30) days prior to the start of commercial operation			
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the City of San Jose for review and comment.	At least sixty (60) days prior to the start of construction	7/3/02	9/6/01	N/A
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	Submit the proposed plume abatement plan to the CPM for review and approval.	At least sixty (60) days prior to the start of construction Within 30 days of notification by the CPM.	7/3/02	9/5/01	6/27/03
VIS-10	The power plant shall be designed and operated to minimize visible plumes.	The project owner shall submit any required revisions.			9/24/02, 11/6/02, 2/21/03, 5/27/03, 6/6/03, 6/24/03	Complete
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	The project owner shall submit to the City of San Jose and the County of Santa Clara Parks and Recreation Department for review and comment railroad tracks a specific plan.	Start of construction of the trail between Blanchard Road and railroad tracks.			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit to the CPM for review and approval a specific plan describing its landscape plan.	Start of construction of the trail between Blanchard Road and railroad tracks.			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Submit any required revisions.	Within 30 days of notification by the CPM.			
VIS-11	Trail development along the Fisher Creek corridor adjacent to the power plant site.	Notify the CPM, City of San Jose and County of Santa Clara Parks and Recreation Department that the planting installation is ready for inspection.	7 days after completion of planting installation			
VIS-12	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Provide to the CPM a report on the landscaping/screening plan.	15 days prior to project construction	8/17/02	7/30/02	9/24/02
						Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	1/14/2002					
START OF CONSTRUCTION	9/1/2002					
VIS-12	Contact the owners of property along Blanchard Road and develop a plan to screen views of the project from each property if so desired by a property owner.	Notify the CPM when any measures are ready for inspection.	Measures are ready for inspection			
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Submit name and qualifications.	30 days prior to site preparation	10/16/01	7/26/01	7/27/01
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Confirm in writing to the CPM that the approved designated cultural resource specialist will be available at the start of construction.	At least 10 days but no more than 30 days prior to the start of earth disturbing activities	12/15/01	7/26/01	9/25/01 1/22/02
CUL-1	Name and statement of qualifications of its designated cultural resource specialist.	Obtain CPM approval of the replacement specialist.	10 days prior to termination of Cultural Specialist			
CUL-2	Provide the designated cultural resource specialist and the CPM with maps and drawings showing the footprint of the power plant and all linear facilities.	Provide the designated cultural resource specialist and the CPM with the maps and drawings.	75 days prior to the start of earth disturbing activities	10/31/01	9/20/01	11/1/01
CUL-3	CRS shall prepare, and the owner shall submit to the CPM for review and written approval, a CRMMP.	Submit the Cultural Resources Monitoring and Mitigation Plan.	60 days prior to project site preparation	11/15/01	6/12/01	12/15/01
CUL-4	WEAT for cultural resources	Submit to the CPM for review and written approval the proposed WEAT.	60 days prior to the start of construction on the project	11/15/01	9/20/01	12/5/01
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	7 days after start of construction	1/21/02	9/29/01	1/29/02
CUL-5	WEAT to all project managers, all construction supervisors, and those workers who operate ground disturbing equipment.	Provide the CPM with documentation that WEAT was administered.	Monthly Compliance Report			In progress
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	Provide the CPM with a letter confirming CUL-6.	30 days prior to site preparation	12/15/01	7/26/01	8/6/01
CUL-6	CRS or monitor shall have the authority to halt or redirect construction if previously unknown cultural resource sites or materials are encountered.	For any cultural resource encountered, the project owner shall notify the CPM within 24 hours.	Within 24 hours of cultural resource discovery			
CUL-7	Provide the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provide the CPM with a copy of each weekly schedule of the construction activities.	10 days prior to site preparation	1/4/02	9/28/01	1/4/02
CUL-7	Provide the designated cultural resource specialist with a current schedule of anticipated project activity in the following month and a map.	Provide the CPM with a copy of each weekly schedule of the construction activities.	Monthly Compliance Report			In progress
CUL-8	CRS monitor keep a daily log of any resource finds and the progress or status of the resource monitoring, mitigation, preparation, identification, and analytical work being conducted for the project.	Copies of the weekly summary reports shall be submitted to the CPM in the Monthly Compliance Report.	Monthly Compliance Report			In progress

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Date	Submitted to CPM/CBO	Date approved by CRM/CEO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						In progress
START OF CONSTRUCTION	9/1/2002						Submitted in March 2003 MCR.
CUL-9	Except in the areas specified in CUL-3(1), the designated cultural resource specialist or delegated monitor(s) shall be present at times the specialist deems appropriate.	Copies of the weekly summary reports prepared by the designated cultural resources specialist regarding project-related cultural resource monitoring.	Monthly Compliance Report				
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Submit a copy of any permit addressing data recovery excavation.	Monthly Compliance Report	3/14/03			
CUL-10	Obtain ground disturbance or cultural resource excavation permits from Caltrans and/or the U.S. Army Corps of Engineers.	Provide written documentation to the permitting agency of compliance with any mitigation measures.	Completion of mitigation activity				
CUL-11	Ensure that the CRS performs the recovery, etc. of all cultural resource materials encountered and collected.	Maintain in its compliance files, copies of signed contracts or agreements with the museum(s), university (ies), or other appropriate research specialists.	Periodic Audit by the CPM				
CUL-12	Prepare a scope of work for Cultural Resources Report following completion of data recovery and site mitigation work.	Submit it to the CPM for review and written approval.	7 days after completion of the proposed scope of work,				
CUL-12	Prepare a scope of work for Cultural Resources Report following completion of data recovery and site mitigation work.	Ensure that the designated cultural resources specialist prepares the proposed scope of work.	Completion of Data Recovery per CUL-12				
CUL-13	Prepare a Cultural Resources Report as described in CUL-13. Submit the report to the CPM for review and written approval.	Ensure that the designated cultural resource specialist completes the Cultural Resources Report.	Within 90 days following completion of the data recovery and site mitigation work.				
CUL-13	Prepare a Cultural Resources Report as described in CUL-13.	Submit the Cultural Resources Report to the CPM for review and written approval.	Within seven (7) days after completion of the report				
CUL-14	Submit an original, an original-quality copy, and a computer disk copy of the CRM-approved Cultural Resource Report to the public repository to receive the recovered data and materials for curation, with copies to the State Historic Preservation Officer (SHPO), the appropriate regional archaeological information center(s), and a person employed by the City of San Jose who is authorized to receive confidential cultural resources information.	Provide to the CRM documentation that the report has been sent to the public repository receiving the recovered data and materials for curation, the SHPO, and the appropriate archaeological information center(s), and the City of San Jose, to a person authorized to receive confidential cultural resources information.	Within thirty (30) days after receiving approval of the Cultural Resources Report				
CUL-15	Ensure that all cultural resource materials, maps, and data collected during data recovery and mitigation for the project are delivered to a public repository.	Ensure that all recovered cultural resource materials are delivered for curation. For the life of the project, maintain copies of signed contracts or agreements with the public repository.	Within thirty (30) days after providing the CRM-approved Cultural Resources Report to the entities				
CUL-16	Consult with Ohlone/Costanoan Native American tribal representatives to develop an agreement(s) for qualified monitors).	Provide the CRM with a copy of all finalized agreements for Native American (Ohlone/Costanoan) monitor(s).	30 days prior to site preparation	12/15/01	8/8/01	8/15/01	Complete
CUL-17	Presence/absence testing shall be conducted in the vicinity of the natural gas pipeline route or PG& E metering station.	Reports addressing the results of the presence/absence testing shall be included in the Monthly Compliance Report.	Monthly Compliance Report				Gas line plan submitted 3/4/03. Plan for sewer and potable lines in progress.

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	7/14/2002					
START OF CONSTRUCTION	9/1/2002					
CUL-18	Comply with Cul-1, Cul-4 and Cul-5. Comply with Cul-2 and Cul-3 for the entire project. CRS shall examine the area of initial project site mobilization.	Provide the CPM with information authorizing the CRS identifying the area of initial site mobilization.	7 days prior to site mobilization	1/7/02	10/2/01	12/15/01
CUL-19	If the potable water wells and associated pipelines are to be located anywhere but in an area defined as part of the proposed project then a cultural resource assessment shall be required.	Submit the results of the records search and the results of the survey.	90 days prior to start of construction of wells			In progress for potable water line.
SOCO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.	Submit copies of contractor, subcontractor, and vendor solicitations and guidelines stating hiring and procurement requirements and procedures.	60 days prior to site preparation	1/15/01	7/20/01	8/8/01
SOCO-1	The project owner and its contractors and subcontractors shall recruit employees and procure materials and supplies within the City of San Jose and Santa Clara County.	Notify the CPM the reasons for any planned procurement or materials or hiring outside the local regional area that will occur during the next two months.	Monthly Compliance Report			In progress
SOCO-2	Pay the one-time statutory school facility development fee as required at the time of filing.	Pay the statutory school facility development fee as required at the time of filing.	At Time of Filing			
SOCO-2	Pay the one-time statutory school facility development fee as required at the time of filing.	Provide proof of payment of the statutory development fee.	Monthly Compliance Report after fees are paid			
BIO-1	Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site. Construction site and/or ancillary facilities preparation shall not begin until an approved Designated Biologist is available to be on site.	Submit name, qualifications, address and telephone number of the individual selected.	60 days prior to start of ground disturbance	1/15/01	7/23/01	7/27/01
BIO-1	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.	If the CPM determines the proposed Designated Biologist to be unacceptable, submit another individual's name and qualifications for consideration.	Notification by CPM that proposed Designated Biologist is unacceptable			
BIO-2	The CPM approved Designated Biologist shall perform the following during project construction and operation: see BIO-2 for detailed tasks.	Biologist shall maintain written records of the tasks described.	Monthly Compliance Report			In progress
BIO-2		Submit record summaries in the Annual Compliance Report.	Annual Compliance Report			
BIO-3	Act on the advice of the Designated Biologist to ensure conformance with the Biological Resources Conditions of Certification and shall halt all construction activities, if necessary.	Notify the CPM by telephone of the circumstances and actions being taken to resolve the problem or the non-compliance with a condition.	Within 2 working days of notification of non-compliance			
BIO-4	Submit to the CPM for review and approval a copy of the final BRMIMP and shall implement the measures identified in the plan.	Provide the CPM with the final version of the BRMIMP.	45 days prior to start of ground disturbance	1/3/01	7/23/01	8/30/01
BIO-4	Submit to the CPM for review and approval a copy of the final BRMIMP and shall implement the measures identified in the plan.	Provide the CPM for review and approval, a written report identifying which items of the BRMIMP have been completed.	30 days after construction complete			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		1/14/2002				
START OF CONSTRUCTION		8/1/2002				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CEO
BIO-5	Develop the riparian corridor planning plan for inclusion into the BRMMP. Develop WEAT for biological resources.	Provide to the CPM for review and approval the riparian restoration plan. State in the Monthly Compliance Report the number of persons who have completed the training in the prior month.	45 days prior to ground disturbance Monthly Compliance Report	11/30/01	7/23/01	10/17/01 Complete
BIO-6	Develop WEAT for biological resources.	Provide copies of the WEAT and the name and qualifications of the person(s) administering the program.	60 days prior to start of rough grading	11/15/01	9/20/01	12/5/2001 In progress
BIO-6	Acquire a SAA from CDFG.	Submit to the CPM a copy of the final CDFG Streambed Alteration Agreement.	30 days prior to the start of any streambed alteration disturbances		9/30/02 (outfall)	In progress
BIO-7	Provide a final copy of the U.S. Fish and Wildlife Service Biological Opinion.	Submit to the CPM a copy of the USFWS Biological Opinion.	45 days prior to the start of ground disturbance	11/30/01	7/23/01	7/27/01 Complete
BIO-8	Provide a final copy of the Nationwide No. 7 permit.	Submit to the CPM a copy of the Nationwide No. 7 permit.	30 days prior to the start of any streambed alteration		8/1/02	8/14/02 Submitted
BIO-9	Provide 116 acres of land on Tulare Hill and 15 acres of land on Coyote Ridge, the name of the entity that will be managing the land in perpetuity, and the endowment funds.	Provide to the CPM for approval, the name of the management entity, written verification that the compensation lands have been purchased and written verification that the appropriate endowment fund has been received.	Within one week of commencing ground disturbance activities		1/21/02	2/26/02 Submitted
BIO-10						
BIO-11	Develop a suitable final habitat management and monitoring plan for lands purchased on Tulare Hill and Coyote Ridge.	Provide the CPM with the final approved version of the management plan. Incorporate into the BRMMP.	60 days prior to start of ground disturbance	11/15/01	8/25/01	7/9/01 Complete
BIO-12	Incorporate into closure plan measures that address the local biological resources and incorporate into the BRMMP.	Address all biological resource-related issues associated with facility closure.	12 months prior to facility closure			
BIO-13	Comply with BIO-1, BIO-2, and BIO-10 and complete BIO-6. Examine the area and ensure no special status species are present.	Provide the CPM with the location, date(s), methods(s), and results of the pre-examination.	10 days prior to mobilization		1/4/02	9/28/01 Complete
SOIL & WATER-1	Disinfected, tertiary-treated, recycled water will be used at the Metcalf Energy Center for cooling purposes and other appropriate non-potable uses.	Provide CPM with a copy of a valid Recycled Water use permit from the City of San Jose.	Construction complete			
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Monthly Compliance Report			In progress
SOIL & WATER-1	Potable water may be used for cooling purposes only in the event that SBWR recycled water service is interrupted.	Provide a record of water consumption for the MEC.	Annual Compliance Report			
SOIL & WATER-1	Provide a firm commitment for its construction water supply.	Submit commitment to CPM.	30 days prior to the start of construction		8/2/02	12/5/01 Complete
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Submit a copy of the SWPPP to the CPM for review and approval.	30 days prior to start of ground disturbance	12/15/01	8/31/01	10/18/01 Complete for project site
SOIL & WATER-2	Storm Water Pollution Prevention Plan (SWPPP) for construction.	Approval of the plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities.	Start of ground disturbance	1/14/02	8/31/01	10/18/01 Complete for project site

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPWICBO	Date approved by CPWICBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
SOIL & WATER-3	Final erosion control and revegetation plan that addresses all project elements.	Approval of the final plan by the CPM must be received prior to the initiation of any clearing, grading or excavation activities. Obtain SCVWD approval.	Start of ground disturbance	12/15/01	8/31/01	10/18/01	Complete for project site
SOIL & WATER-4	Obtain SCVWD approval for all activities within floodways or upon or within the banks of watercourses.	30 days prior to ground disturbance		12/15/01	8/31/01, 1/2/02, 12/2/02, 2/1/03	1/25/02	Complete (5 permits to date)
SOIL & WATER-5	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP).	60 days prior to commercial operation				
SOIL & WATER-5	Develop and Implement a Storm Water Pollution Prevention Plan (SWPPP) as required under the General Industrial Activity Storm Water Permit.	Submit a copy of the Storm Water Pollution Prevention Plan (SWPPP).	2 weeks prior to commercial operation				
SOIL & WATER-6	Industrial Discharge Permit from the City of San Jose Environmental Services Division.	Provide the CPM a copy of a valid Industrial Discharge Permit.	45 days prior to commercial operation				
SOIL & WATER-7	Obtain a Section 401 Certification from the San Francisco RWQCB.	Submit to the CEC CPM a copy of the Section 401 Certification.	30 days prior to the start of any streambed alteration activities	5/1/03	12/20/02 (outfall)		Complete for outfall
SOIL & WATER-8	Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Submit the following to the Energy Commission CPM: all construction specifications, a copy of the valid well permit(s) and registration numbers, any construction or operation conditions.	30 days prior to construction of wells				
SOIL & WATER-8	Shall only use groundwater for MEC process and domestic requirements and for back-up cooling make up from either the two wells and pipelines.	Notify the CPM that the wells have been installed and submit the results of the pump and aquifer tests conducted.	30 days after completion of wells				
SOIL & WATER-9	Design, construct, and fully fund the portion of the SBWR reclaimed water supply pipeline dedicated to, and essential for, the operation of MEC.	Submit evidence demonstrating that the project owner has negotiated or is negotiating one or more agreements to provide SBWR reclaimed water.	30 days prior to start of construction	8/2/02	8/24/01	10/1/01	Complete
GEO-1	Assign to the project an engineering geologist(s).	Submit to the CPM the name(s) and license number(s) of the certified engineering geologist(s).	30 days prior to start of construction	8/2/02	7/27/2001 1/28/02	N/A	Complete
GEO-1	Assign to the project an engineering geologist(s).	Notify CPM of replacement of Engineering Geologist	30 days prior to start of construction	1/28/02	1/28/02	2/6/02	Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit Grading Permit Application	Replacement of Engineering Geologist	1/28/02	1/28/02	2/6/02	Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit a signed statement to the CPM stating that the Engineering Geology Report has been submitted to the CBO.	Application for Grading Permit per GEO-2	1/1/02	1/1/02	4/4/02	Complete
GEO-2	The assigned engineering geologist(s) shall carry out the duties required by the 1998 CBC.	Submit copies of the Final Engineering Geology Report to the CPM and the CBO.	15 days after submittal of application	1/26/02	1/14/02	1/24/02	Complete
PAL-1	Ensure that the designated paleontological resource specialist is available for field activities.	Submit the name and resume and the availability for its designated paleontological resource specialist.	90 days following completion of Final Grading	6/3/02	7/26/01	7/27/01	Complete
PAL-2	Ensure that the designated paleontological resource specialist is available for field activities.	Obtain CPM approval of the replacement specialist.	10 days prior to termination or release of PRS				
PAL-2	Prepare Paleontologic Resources Monitoring and Mitigation Plan.	Provide the CPM with a copy of the Monitoring and Mitigation Plan.	60 days prior to start of construction	6/1/01	6/1/01	7/27/01	Complete

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	WEAT for paleo resources.	Submit to the CPM for review, comment, and written approval, the WEAT.	30 days prior to start of construction	9/20/01	9/20/01	10/3/2001 3/20/02 (Video)
START OF CONSTRUCTION	WEAT for paleo resources.	Documentation for training of additional new employees. Include a summary of paleontological activities.	Monthly Compliance Report			In progress
PAL-3	The designated paleontological resource specialist shall be present at all times he or she deems appropriate to monitor.	Maintain in compliance files copies of signed contracts or agreements with the designated paleontological resource specialist. Maintain these files for a period of three years after approval Paleontological Resources Report.	Monthly Compliance Report			In progress
PAL-4	Ensure recovery, preparation for analysis, analysis, identification and inventory, the preparation for curation, and the delivery for curation of all significant paleontological resource materials.	Periodic Audit by the CPM per PAL-5				
PAL-5	Ensure preparation of a Paleontological Resources Report by the designated paleontological resource specialist.	Submit a copy of the Paleontological Resources Report to the CPM for review and approval.	Within 90 days following completion of the analysis			
PAL-6	Include in the facility closure plan a description regarding facility closure activity's potential to impact paleontological resources.	Include a description of closure activities in the facility closure plan.	Facility Closure Plan			
PAL-7	Design, construct and inspect the project in accordance with the 1998 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Submit to the CPM a statement of verification attesting that all designs, construction, installation and inspection requirements of the applicable LORS and the Decision have been met.	Within 30 days after receipt of the Certificate of Occupancy.			
GEN-1	Design, construct and inspect the project in accordance with the 1998 California Building Code (CBC) and all other applicable LORS in effect at the time initial design plans are submitted to the CBO for review and approval.	Provide the CPM a copy of the Certificate of Occupancy.	Within 30 days after receipt of the Certificate of Occupancy.			
GEN-1	Submit to the CPM and CBO a schedule of facility design submittals, a Master Drawing List, and a Master Specifications List.	Submit the schedule, a Master Drawing List, and 60 days prior to start of rough grading a Master Specifications List to the CBO and to the CPM.	Monthly Compliance Report	11/15/01	10/4/01	10/18/01
GEN-2	Submit to the CPM and CBO a schedule of facility design submittals, a Master Drawing List, and a Master Specifications List.	Provide schedule updates in Monthly Compliance Report	Monthly Compliance Report			
GEN-2	Make payments to the CBO for design review, plan check and construction inspection.	Make the required payments to the CBO at the time of submittal.	Submittal of plans to the CBO.			In progress
GEN-3	Make payments to the CBO for design review, plan check and construction inspection.	Send a copy of the CBO's receipt of payment to the CPM.	Monthly Compliance Report after Fees are Paid	11/15/01	12/14/01	N/A
GEN-3	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approvals of the RE.	30 days prior to start of rough grading	12/15/01	8/1/01	8/7/01
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Submit qualifications of replacement RE.	Within 5 days of CBO approval	8/12/01	9/19/01	N/A
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Within 5 days	Within 5 days	12/12/01	1/16/02	Complete

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	9/1/2002						
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE). Submit qualifications of replacement RE.	Within 5 days of CBO approval Within 5 days	1/21/02	1/18/02	N/A	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	1/14/02	1/14/02	11/18/2002, 5/7/03	Complete
GEN-4	Assign a California registered architect, structural engineer or civil engineer, as a resident engineer (RE).	Notify the CPM of the CBO's approval of the new engineer (RE).	Within 5 days of CBO approval	11/23/2002, 5/12/03	11/20/2002, 5/6/2003	N/A	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit to the CBO for review and approval, the names, qualifications, and registration numbers of all the responsible engineers.	30 days prior to start of rough grading	12/15/01	8/1/01	8/7/01	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	The project owner shall notify the CPM of the CBO's approvals of the engineers within five days of the approval.	Within 5 days of CBO approval	8/1/01	8/1/01	N/A	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Submit qualifications of replacement engineer.	Within 5 days	12/17/01	1/16/02	1/18/01	Complete
GEN-5	Assign A) a civil engineer; B) a geotechnical engineer; C) a design engineer; D) a mechanical engineer; and E) an electrical engineer.	Notify the CPM of the CBO's approval of the new engineer.	Within 5 days of CBO approval	1/18/02 & 1/28/02	N/A	N/A	Complete
GEN-5	Assign qualified and certified special inspector(s).	Submit to the CBO for review and approval, with a copy to the CPM, the name(s) and qualifications.	15 days prior to any activity requiring Special Inspection	1/11/02	1/16/02	In progress	
GEN-6	Assign qualified and certified special inspector(s),	Submit to the CPM a copy of the CBO's approval.	Monthly Compliance Report after Special Inspectors are approved	2/14/2002 1/0/2002			In progress
GEN-6	Assign qualified and certified special inspector(s);	Replacement of special Inspectors	Replacement of Special Inspector				
GEN-6	Assign qualified and certified special inspector(s);	Notify the CPM of the CBO's approval of the newly assigned inspector.	Within 5 days of CBO approval				
GEN-6	Keep the CEO informed regarding the status of engineering and construction.	Submit monthly construction progress reports to the CEO and CEA.	Monthly Construction Progress Report				
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	Document the discrepancy and recommend the corrective action required.	Discrepancy in Design or Construction				
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	Transmit a copy of the CBO's approval or disapproval of any corrective action taken to resolve a discrepancy to the CPM.	Within 15 days of CBO Approval or Disapproval of Discrepancy				
GEN-7	Keep the CEO informed regarding the status of engineering and construction.	If disapproved, advise the CPM, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO Approval or Disapproval of Discrepancy				
GEN-7	Obtain the CBO's final approval of all completed work.	Submit to the CBO, with a copy to the CPM, a written notice that the completed work is ready for final inspection, and a signed statement that the work conforms to the final approved plans.	Within 15 days of the completion of any work				
GEN-8							

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		Action required		Event	Required Submittal Date	Date submitted to CPM/CBO by CPM/CBO
Condition No.	Requirements & Task Summary					Status/Comments
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report.	Submit the documents described above to the CBO for review and approval.		15 days prior to start of rough grading	12/30/01	8/27/01
CIVIL-1	Prior to the start of site grading, submit to the CBO for review and approval the following: 1. Design of the proposed drainage structures and the grading plan; 2. An erosion and sedimentation control plan; 3. Related calculations and specifications; 4. Soils report.	Submit a written statement certifying that the documents have been approved by the CEO.		Monthly Compliance Report after CIVIL-1 Documents are Approved	5/14/02	5/14/02
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Notify CPM within 5 days when work is stopped.		Within 5 days when work is stopped		
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Submit modified plans, specifications and calculations to the CBO based on new conditions.		Work Stopped Due to Unforeseen or Adverse Soil Conditions		
CIVIL-2	The resident engineer shall, if appropriate, stop all earthwork and construction in the affected areas when the responsible geotechnical engineer identifies unforeseen adverse soil or geologic conditions.	Copy CPM within 5 days of CBO approval of Modified Plans.		5 days of CBO approval		
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.		Start of Rough Grading		
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Inspection and Appendix Chapter 33, Section 3317, Grading Inspection.	The resident engineer shall transmit to the CEO and the CPM a Non-Conformance Report and the proposed corrective action.		Within 5 days of discovery of discrepancy in grading		
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Grading Inspection.	Submit the details of the corrective action to the CEO and the CPM.		Within 5 days of resolution of grading NCR.		
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Grading Inspection.	A list of NCRs, for the reporting month, shall also be included in the following Monthly Compliance Report.		Monthly Compliance Report after Resolution of Grading NCR.		
CIVIL-3	Perform Inspections in accordance with the 1998 CBC, Chapter 1, Section 108, Inspections, Chapter 17, Section 1701.6, Continuous and Periodic Special Grading Inspection.	Monthly Compliance Report after Resolution of Grading NCR.				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		Action required		Status/Comments		
Condition No.	Requirements & Task Summary	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	
CIVL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit to the CBO the responsible Civil engineer's signed statement that the installation of the facilities and all erosion control measures were completed in accordance with the final approved combined grading plans.	30 days after completion of the Erosion and Sediment Control Mitigation and Drainage Facilities	7/26/02	7/26/2002 / 1/6/03	Complete for phase 1 grading only.
CVNL-4	After completion of finished grading and erosion and sedimentation control and drainage facilities, the project owner shall obtain the CBO's approval of the final "as-graded" grading plans, and final "as-built" plans for the erosion and sedimentation control facilities.	Submit a copy of this report to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report Following Completion of the Erosion and Sediment Control Mitigation and Drainage Facilities	8/14/02	8/14/2002 / 1/17/03	Complete for phase 1 grading only.
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CBO, with a copy to the CPM, the responsible design engineer's signed statement that the final design plans, specifications and calculations conform with all of the requirements.	30 days prior to any Increment of STRUC-1 Construction			
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Obtain approval from the CBO of lateral force procedures proposed for project structures. Obtain approval from the CBO for the final design plans, specifications, calculations, soils reports, and applicable quality control procedures. Submit to the CBO the required number of copies of the structural plans, specifications, calculations. The final designs, plans, calculations and specifications shall be signed and stamped by the responsible design engineer.	90 days prior to the start of on-site fabrication and installation of each structure			In progress
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	If the CBO discovers non-conformance with the stated requirements, resubmit the corrected plans to the CBO with a copy to the CPM.	Within 20 days of receipt of the nonconforming submittal			
STRUC-1	Submit to the CBO for review and approval the applicable designs, plans and drawings, and a list of those project structures, components and major equipment items that will undergo dynamic structural analysis.	Submit to the CPM a copy of a statement from the CBO that the proposed structural plans, specifications, and calculations have been approved and are in conformance with the requirements.	Approval by the CBO of Resubmitted STRUC-1 Submittal			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit test reports and inspection reports to the CBO	Test Reports or Inspection Reports are Complete			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If a discrepancy is discovered in any of the above data prepare and submit an NCR to the CBO, with a copy of the transmittal letter to the CPM.	Within 5 days of discovery of discrepancy			
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Submit a copy of the corrective action to the CBO and the CPM.	Within five days of resolution of the NCR			

METCALF ENERGY CENTER : COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	9/14/2002	Transmit a copy of the CBO's approval or disapproval of the corrective action to the CPM.	Within 15 days of CBO approval			
START OF CONSTRUCTION	9/1/2002	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	If disapproved, advise the CPM, the reason for disapproval, and the revised corrective action to obtain CBO's approval.	Within 5 days of CBO disapproval		
STRUC-2	The project owner shall submit to the CBO the required number of sets of the following: See STRUC-2.	Notify the CBO of the intended filing of design changes, and shall submit the required number of sets of revised drawings and the required number of copies with a copy of the transmittal letter to the CPM.	Design Changes to STRUC-1 Designs Previously Approved by the CBO			
STRUC-3	Submit to the CBO design changes to the final plans required by the 1998 CBC, Chapter 1, Section 106.3.2, Submittal documents, and Section 106.3.3.	Notify the CPM, via the Monthly Compliance Report, when the CBO has approved the revised plans.	Monthly Compliance Report			
STRUC-3	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification.	30 days prior to the start of installation of the tanks or vessels			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Send copies of the CBO approvals of plan checks to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report			
STRUC-4	Tanks and vessels containing quantities of toxic or hazardous materials exceeding amounts must be designed to comply with Occupancy Category 2 of the 1998 CBC.	Transmit a copy of the CBO's inspection approvals to the CPM.	Monthly Compliance Report			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Submit to the CBO for approval, with a copy to the CPM, the proposed final design plans, specifications, calculations, and quality control procedures for that increment of construction of piping systems.	30 days prior to the start of any increment of piping construction			
MECH-1	Prior to the start of any increment of piping construction, submit, for CBO review and approval, the proposed final design drawings, specifications and calculations for each plant piping system.	Transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any inspection.	Monthly Compliance Report after CBO Inspection Approval of MECH-1 Piping Systems			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Submit to the CBO for review and approval, final design plans, specifications, and calculations, including a copy of the signed and stamped engineer's certification, with a copy to the CPM.	30 days prior to the start of on-site fabrication or installation of any pressure vessel			

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
START OF MOBILIZATION/ROUGH GRADING		START OF CONSTRUCTION				
Condition No.	Requirements & Task Summary	Action required	Event	Required Submission Date to CPM/CBO	Date submitted to CPM/CBO	Status/Comments
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	The project owner shall send copies of the CBO plan check approvals to the CPM in the following Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for Pressure Vessels			
MECH-2	For all pressure vessels installed in the plant, submit to the CBO and Cal-OSHA, prior to operation, the code certification papers and other documents required by the applicable LORS.	Transmit a copy of the CBO's and/or Cal-OSHA Inspection approvals to the CPM in the Monthly Compliance Report following completion of any Inspection.	Monthly Compliance Report after CBO Inspection Approval of Pressure Vessels Defined in MECH-2			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Submit to the CBO the required HVAC and refrigeration calculations, plans and specifications, including a copy of the signed and stamped statement from the responsible mechanical engineer, with a copy to the CPM.	30 days prior to the start of construction of any HVAC or refrigeration system			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Send copies of CBO comments and approvals to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after CBO Approval of Plan Checks for HVAC Systems			
MECH-3	Prior to the start of construction of any heating, ventilating, air conditioning (HVAC) or refrigeration system, submit to the CBO for review and approval the design plans, specifications, calculations and quality control procedures for that system.	Transmit a copy of the CBO's inspection approvals to the CPM in the Monthly Compliance Report following completion of any Inspection.	Monthly Compliance Report after CBO Inspection Approval of HVAC Systems Defined in MECH-3			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Submit to the CBO the final design plans, specifications and calculations, including a copy of the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBC	30 days prior to the start of construction of any of the above systems			
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Send the CPM a copy of the transmittal letter with the signed and stamped statement from the responsible mechanical engineer certifying compliance with the applicable edition of the CBC in the next Monthly Compliance Report.	Monthly Compliance Report after Mechanical Engineer Certification of HVAC System per MECH-4			

## METCALF ENERGY CENTER - COMPLIANCE MATRIX

Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO	Status/Comments
START OF MOBILIZATION/ROUGH GRADING	1/14/2002						
START OF CONSTRUCTION	8/17/2002						
MECH-4	Prior to the start of each increment of plumbing construction, submit for CBO's approval the final design plans, specifications, calculations, and QA/QC procedures for all plumbing systems, potable water systems, drainage systems, toilet rooms, building energy conservation systems, and temperature control and ventilation systems, including water and sewer connection permits issued by the local agency.	Transmit a copy of the CBO's Inspection approvals to the CPM in the next Monthly Compliance Report following completion of that increment of construction.	Monthly Compliance Report after CBO Inspection of HVAC System per MECH-4				
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Submit to the CBO for review and approval the final design plans, specifications and calculations for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer.	30 days prior to the start of each increment of electrical construction				
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	Send a copy of the transmittal letter of the electrical engineer attesting compliance with the applicable LORS to the CPM.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-1				
ELEC-1	For the 480V and higher systems, shall not begin any increment of electrical construction until plans for that increment have been approved by the CBO.	The following activities shall be reported in the Monthly Compliance Report: 1. Receipt or delay of major electrical equipment. 2. Testing or energization of major electrical equipment.	Monthly Compliance Report after Receipt or Testing of Equipment or CBO Approval of Electrical Drawings per ELEC-1				
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CIBC 1998, Section 108.3.2, Submittal documents.]	Submit to the CBO for review and approval the final design plans, specifications and calculations, for electrical equipment, including a copy of the signed and stamped statement from the responsible electrical engineer certifying compliance with the applicable LORS.	30 days prior to the start of each increment of electrical equipment installation				In progress
ELEC-2	The project owner shall submit to the CBO the required number of copies of items A and B for review and approval and one copy of item C [CIBC 1998, Section 108.3.2, Submittal documents.]	Send a copy of the transmittal letter of the responsible electrical engineer attesting compliance with the applicable LORS to the CPM in the next Monthly Compliance Report.	Monthly Compliance Report after submitting Electrical Documents for CBO Approval per ELEC-2				
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1a - h listed in Conditions of Certification.	Submit for approval to the CPM: Design drawings, specifications and calculations for the poles/towers, foundations, anchor bolts, conductors, grounding systems and major switchyard equipment.	60 days prior to construction of transmission facilities				
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE1a - h listed in Conditions of Certification.	Submit for approval to the CPM: b) For each element of the transmission facilities as identified above, the submittal package to the CPM shall contain the design criteria, etc.	60 days prior to construction of transmission facilities				

METCALF ENERGY CENTER - COMPLIANCE MATRIX						
Condition No.	Requirements & Task Summary	Action required	Event	Required Submittal Date	Date submitted to CPM/CBO	Date approved by CPM/CBO
START OF MOBILIZATION/ROUGH GRADING	7/14/2002					
START OF CONSTRUCTION	9/1/2002					
TSE-1	Ensure the design, construction and operation of transmission facilities conform to requirements TSE-a - h listed in Conditions of Certification.	Submit for approval to the CPM: c) Electrical one-line diagrams signed and sealed by the registered professional electrical engineer in responsible charge, a route map, and an engineering description of equipment.	60 days prior to construction of transmission facilities			
TSE-2	Inform the CPM of any impending changes which may not conform to the requirements of TSE-1 and request CPM approval to implement changes.	Inform the CPM of any impending changes which may not conform.	60 days prior to construction of transmission facilities			
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM "as built" engineering description(s) and one-line drawings of the as-built facilities signed and sealed by a registered electrical engineer in responsible charge.	Within 60 days after synchronization of the project			
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM an "as built" engineering description of the mechanical, structural, and civil portion of the transmission facilities signed and sealed by the registered engineer.	Within 60 days after synchronization of the project			
TSE-3	Be responsible for the inspection of the transmission facilities during and after project construction and any subsequent CPM approved changes.	Transmit to the CPM a summary of inspections of the completed transmission facilities, and identification of any nonconforming work and corrective actions taken, signed and sealed by the registered engineer.	Within 60 days after synchronization of the project			
Governor's Executive Order No. D-25-01	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH PRE-CONSTRUCTION MILESTONES TO ENABLE START OF CONSTRUCTION WITHIN ONE YEAR OF CERTIFICATION	Project Certification	10/24/01	10/24/01	11/19/01
Governor's Executive Order No. D-25-01	Milestones, and method of verification must be established and agreed upon by the project owner and the CPM no later than 30 days after project approval, the date of docketing. If this deadline is not met, the CPM will establish the milestones.	ESTABLISH CONSTRUCTION MILESTONES FROM DATE OF START OF CONSTRUCTION	Project Certification	10/24/01	10/24/01	11/19/01
Pre-constr matrix	Prior to commencing construction a compliance matrix addressing only those conditions that must be fulfilled before the start of construction shall be submitted to the CPM.	Construction shall not commence until the pre-construction matrix is submitted, all pre-construction conditions have been compiled with, and the CPM has issued a letter to the project owner authorizing construction.	Start of Construction	9/1/02	8/7/02	8/30/02
Compliance matrix	A compliance matrix shall be submitted by along with each monthly and annual compliance report.	Submit compliance matrix to CPM	Monthly Compliance Report	11/15/01	11/15/01	On-going

## **CBO SUBMITTALS, COMMENTS AND APPROVALS**

**METCALF ENERGY CENTER  
MONTHLY COMPLIANCE REPORT #21**



# Memorandum

**TO:** Bart Brierty, CBO Plan Check Coordinator  
Metcalf Energy Center, San Jose, California

**FROM:** Gang Jiao, Willdan

**SUBJECT:** Drawings for Steam Turbine/Generator Pedestal  
Part of Submittal #3028; CBO #00154  
MEC: 13254

**DATE:** May 30, 2003

The following are our plan review comments for the submitted plans.

## PART 1 – STRUCTURAL PLANS

1. On drawing S245, there are two Detail 1, 2, 3 & 4. To avoid confusion, suggest re-numbering the details so that they are not duplicated.
2. On drawing S245, it shows the distance between the centerlines of Detail 2 and Detail 3 pilaster (near axis B) is 18", which means that the west end dowel in Detail 2 will be only 2" away from the east end dowel in Detail 3, see Drawing S247. This spacing is too small for #9 bars, please revise.

end

**NET-GATE DOCUMENT SUBMISSION RECORD  
CAPINTERP AND CBO**

WILLDAN CBO PROJECT NO. 13254

**THE CALIFORNIA SUBMITTAL RECORD**  
**CALPINE/BAR AND OBO**

**WILLDAN CBO PROJECT NO. 13254**

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments	Sub'd	Rsp'd Documents
				Issued	To Check	From Check	Respond			
TSE-1	Calpine Letter		Qualifications: Switchyard Power Engineers 2 Resumes	02/04/03				Approved		
		Carl Johnson - Resume								
		Kevin Murar - Resume							1	1
TSE-1	Calpine Letter		Qualifications: Switchyard Power Engineers 2 Registration Certificates	04/17/03				Under Review		
		Carl Johnson - Certification								
		Kevin Murar - Certification								
GEN 5	Calpine Letter		Qualifications: Gas Pipeline Raymundo Engineering: 2 Resumes	02/05/03				HK	Approved	
		Resp. Design Eng: Gas Pipeline - John Byrne								
		Resp. Design Eng: Gas Pipeline - Bernard Wroblewski		02/05/03						
GEN-5	Calpine Letter		Qualifications: Gas Pipeline Raymundo Engineering: 4 Resumes, Organizational Chart, Inspection Plan	05/05/03				HK	Approved	
		William Raymundo - Resume								
		John J. Byrne - Resume								
		Karli K. Maeda - Resume								
		Bart F. Oddo - Resume								
		Inspection Plans								
		Organizational Chart								
GEN-5	Calpine Letter		Qualifications: Access Road and Sewer Line CH2M-Hill Engineering: 2 Resumes	03/25/03				HK	Approved	
		Mike Zabaneh - Resume								
		Benjamin Wright - Resume								
WASTE-4	Calpine Letter		Qualifications: Registered Geologist 2 Letters 6 Resumes	04/18/03				Approved		
		Letter to Steve Monroe 3/12/03								
		Mark Smolley								
		Letter to Steve Monroe July 31,2001								
		Ana Demarest-Resume								
		David Ritzman - Resume								
		Julia S. Spahn - resume								
		Keith Sheets - resume								



**RECEIVED DOCUMENT SUBMISSION RECORD**  
**CALPINE/BRAND CBO**

**WILLDAN CBO PROJECT NO. 13254**

Condition of Certification	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments or Action Required		Documents	
				Issued Due Date	To Check	From Check	Responsible Check By	Status	Action Required	Rcd	Rsp'd
CIVIL-1	Bechtel	Storm Water Management Plan	Erosion-Sediment Control & Storm Water Plan: Report# 24193-000-G27-GEK-00001 Rev 2 Calc: Storm Basin Sizing H&H-1 Rev 1	10/19/01			4/8/2002	DN	Approved R2	0	0
	*	Calic: Storm Drain Design H&H-2 Rev 2	Calic: Retaining Wall Structure 000-DBC-000-00001	08/21/02			4/8/2002	Approved	R1	1	1
		Dwg: 0-C2-0000-00001 Site Plan	Dwg: 0-C2-0000-00002 Const. Facilities	10/30/2002			4/8/2002	Approved	R2	1	1
		Dwg: 0-CE-0000-00001 Clearing Stripping Stockpile	Dwg: 0-CG-0100-00001 Rough Grading Phase 1	10/10/2002			4/8/2002	Approved	R0 * May not belong in this package	1	1
		Dwg: 0-CG-0100-00002 Rough Grading Phase 2	Dwg: 0-CG-0100-00001 Erosion Control Details	10/24/2001			4/8/2002	Approved	R2	1	0
		Dwg: 0-CG-0090-00002 Drainage Details	Dwg: 0-CG-0090-00003 Rough Grading Details	8/20/2001					R1	1	0
		Dwg: 0-CG-0090-00004 Drainage Headwall Details	Dwg: 0-CG-0090-00005 Rough Grading Sections	10/19/2001			4/8/2002	Approved	R1	1	0
	*	Dwg: 0-CD-0100-00006 Retaining Wall	Dwg: 0-CD-0100-00001 Storm Water Piping Plan	8/10/2001					R0 * May not belong in this package	1	0
		Dwg: 0-CS-0200-00001 Main Access Road	Dwg: 0-CS-0300-00001 Railroad Plan & Profile	10/31/2001			4/8/2002	Approved	R2	1	0
CIVIL-1	2001	Rough Grade Plan Check	Rough Grade Plan Check	10/7/2001			4/8/2002	Approved	R1	1	0
CIVIL-1	2001	Grading Retaining Wall-Geotech Review	Geotechnical Report (by Arroyo)	8/10/2001			8/10/2001	Approved	R0	1	0
CIVIL-1	2002	Pilot Plan - Bechtel C2-0000-00003	Pilot Plan - Bechtel C2-0000-00003	8/29/2001					C-9/18/01	1	0
CIVIL-1	2003	Engineering Geology Report	Engineering Geology Report	9/18/2001					C-10/19/01	1	1
CIVIL-1	2004	Engineering Geology Report	Engineering Geology Report	1/12/2002					6/12/2002	1	1
CIVIL-1	2004	Phase 2 - Drainage and Grading : 4 Drawings	Phase 2 - Drainage and Grading : 4 Drawings	10/26/2002			10/26/2002	Approved	C-10/26/02	1	1
		Dwg: C-071-R0 Rough Grading Plan	Dwg: C-071-R0 Rough Grading Plan	2/28/03			3/14/03	RS HK	See 2008	1	1
		Dwg: C-072-R0 Drainage Plan	Dwg: C-072-R0 Drainage Plan						See 2008	1	1
		Dwg: C-073-R0 Foundation Schedule	Dwg: C-073-R0 Foundation Schedule								
		Dwg: C-074-R0 Crane Staging Area Plan	Dwg: C-074-R0 Crane Staging Area Plan								
CIVIL-1	2005	Technical Specification for Earthwork	Subsurface Investigation & Geology Report:						C-11/15/02	1	1
CIVIL-1	000020	CY-0000-001 Rev H	CY-0000-001 Rev H						A-4/4/02	4	4
		0-CG-0100-00002 Rev. 1,	0-CG-0100-00002 Rev. 1,								
		0-CG-0090-00006 Rev. 0,	0-CG-0090-00006 Rev. 0,								
		0-C2-0000-00001 Rev. 1	0-C2-0000-00001 Rev. 1								
GEO-2	2008	Engineering Geology Report - Application for Grading Permit	Engineering Geology Report - Application for Grading Permit						C-1/17/02	1	1

**WEC-AF DOCUMENT SUBMITAL RECORD  
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**WILLDAN CBO PROJECT NO. 13254**

Condition of Certification	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments or Action Required		Rcd	Rspd
				Issued Due Date	To Check	From Check	Resp' Date	Check By	Status		
GEO-2	2008	000007	Subsurface Investigation & Foundation Report- Responses to Arroyo's comments	2/16/2002				Verbal Evans		See 00012 Response Forecast 3/22/02	1
GEO-2	2008	000012	Subsurface Investigation and Foundation Report- Revisions	3/8/2002						Response Forecast 3/22/02	1
CIVIL-1	2009	000028	Sediment & Erosion control - C050 South laydown yard C060 Sedimentation & Erosion Notes & Details Rev 0 C061 Sedimentation&Erosion Details Rev.0	3/6/2002	3/22/02			A-3/29/02		Response Received 3/29/02 Disposition dated 10/14/02 Response Forecast CEC	1
CIVIL-1	2009	000048	Sediment & Erosion Control Burns & Roe response to comments	4/30/2002	5/21/2002			A-9/26/02 Verbal HK		Disposition dated 10/14/02	4
CIVIL-1	2010	000029	Burns & Roe Response to comments on Design of Concrete Filled Pipe Piles	5/6/2002	5/28/2002			A-9/26/02		Approved with 3014	1
CIVIL-4	2011	000054	Site Observation Report: Dated 7/25/02	07/26/2002	No rsp rq'd			A-5/8/02			1
CIVIL-4	3052	000126	Site Observation Report: Marty Ballod final site visit. Three page document	01/06/2003	No rsp rq'd	01/10/03	01/17/02	HK-DW	resubmitted	Comments from HK faxed to engineer. Report to be discussed at meeting with SG&SM Resident engineer transfer.	1
CIVIL-4	3052	000136	Site Observation Report: Marty Ballod final site visit. Three page document	01/27/2003	No rsp rq'd	2/4/2003		HK-RS			
CIVIL-4	3052	000156	Revised Site Observation Report:	3/24/2003	No rsp rq'd					Approved	
CIVIL-1	2011	000004	Retaining Wall Superceded by Keystone Blocks	2/6/2002							
CIVIL-1	2012	00069	Retaining Wall as built drawings 0-CG-0090-0006 Rev 2 2484-C030 Rev. 0	9/13/2002	10/7/2002					Low Priority per JF on 10/9/02 Replaces FCR 0002	1
CIVIL-1	3022	00037	Roadway Drawings C040 Road Geometry Plan Rev. 0 C043 Typical Road Cross Section Rev. 0 C045 PG&E All-Terrain Vehicle Access Partial Plan Rev. 0	6/13/2002	6/27/2002	7/1/2002			N-7/1/02		2
CIVIL-1	3022	00056	Roadway Drawings - Comments of 7/1/02	08/02/02	08/22/02					C-10/9/02 Tech Specs Section (Earthwork) should be referred to for all compaction requirements	1
CIVIL-1	3022	00062	Roadway Drawings C040 Road Geometry Plan Rev. 2 C043 Typical Road Cross Sections Rev. 2 C045 PG&E All Terrain Vehicle Access, Rev.2	08/02/02	09/12/02					A-10/9/02	1
CIVIL-1	3022	00113	Roadway Drawings C040 Road Geometry Plan Rev. 2 C043 Typical Road Cross Sections Rev. 2 C045 PG&E All Terrain Vehicle Access, Rev.2	12/6/2002						BB to review correspondence	2
CIVIL-1	3022	000118	Roadway: Letter: Response to CBO Comments: Roadway crosssection Dwg: C043 R3	12/23/02	01/07/03	To Check	From Check	HK	Approved Unstamped		2
CIVIL-1	2013	000107	Temporary Construction Facilities : Dwg# C070-R0	11/25/2002	12/18/2002	02/04/02	xx	RS	xx	Kirsten Advises not to review because permits are not in place	1

**MEYCALE DOCUMENT SUBMITTAL RECORD**  
**CALPINE B&R AND CBO**

WILLDAN CBO PROJECT NO. 13254

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WILLDAN CBO PROJECT NO. 13254							
Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates			Comments - Action Required
				Issued Due	To Checker	From Checker	Status
STRUC-1	00005		CTG & STG Foundation Piling Drawings S110 Composite Pile Plan Rev A S111 Pile Sections and Details S200 CTG Pedestal Pile Location Plan S240 STG Pedestal Pile Location Plan	02/06/02 02/27/02	03/21/02	03/29/02	A-3/29/02
STRUC-1	00006		Spec's for concrete curing, forming & Grout 03100, 03390 & 03600 Rev. A	2/15/02 03/8/02	03/15/02	See 00017	03/15/02
STRUC-1	00011		CTG, STG & HRSG Pile Calculations	2/28/02 3/21/02	03/21/02	03/29/02	A-3/29/02
STRUC-1	00013		Overdue Response Notification CBO 0005, 0006, 0007	03/11/02			Resp to 0005,0000 6,0007
STRUC-1	3001		HRSG Foundation and Lateral calculations	08/09/01			C-9/28-01
STRUC-1	3001		HRSG Structural Calculations	11/01/02			C-11/7/02
STRUC-1	3001		HRSG - Frame corner connections, shear blocks, base plates and casting stiffeners				
STRUC-1	00003		Piling Specs (test piles) , 02472, Concrete Filled Pipe Piles, Rev.C 02473 Pile Test Program Rev 0 03200 Concrete Reinforcement Rev 0 03300 Cast-In-Place Concrete Rev. 0 S108 Pile Load Test Plan Rev. 0.	01/31/02	03/01/02	See 00015	C-3/1/02
STRUC-1	3002		Piling Specs (test piles) 02472, Concrete Filled Pipe Piles, Rev.C 02473 Pile Test Program Rev A 03200 Concrete Reinforcement Rev A 03300 Cast-In-Place Concrete Rev. A S108 Pile Load Test Plan Rev. D. S109 Test Pile Sections & Details Rev. D	03/14/02 03/21/02	03/21/02	03/29/02	A-3/29/02
STRUC-1	00089		Water Pipe Specification 03300 Dwg. For Circ. Water Pipe Support Frame	10/28/02 11/19/02			
STRUC-1	000153		Piling Specs: 1 Specification Spec# 02472-R4 Concrete Filled Pipe Piles	3/11/03 3/24/03			BB HK
STRUC-1	3004		Report on Seismic Design Motions				
STRUC-1	3006		Concrete Specs: 3 Documents Concrete formwork Curing & Grout Spec 03100, Concrete Curing Specs 03390 Rev. A and Grout, Spec 03600 Rev.A.	01/31/02			03/14/02
STRUC-1	3006		Spec's for concrete curing, forming & Grout 03100, 03390 & 03600 Rev. A	3/20/02 4/10/02			A-3/26/02
STRUC-1	3007		Design Report for W501F Exhaust System Diffuser				A-4/24/02
STRUC-1	3009		HRSG Piles: Pile Location Plan S300	02/20/02 03/13/02	03/21/02	03/29/02	A-5/15/02

WILLDAN CBO PROJECT NO. 13254									
Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required	
				Issued	Due	To Checker	From Response	Plan Check	Status
STRUC-1	3010	00014	Gas Turbine documentation	03/13/02 04/3/02	04/03/02 04/04/02	See 00031		C-4/3/02	
STRUC-1	3010	00031	SWPC-CM-008 Enclosure "B" Side Platform Analysis SWPC-CM-009 Generator End Exterior Platform and Stair SWPC-CM-010 Exhaust End Exterior Platform and Stair SWPC-CM-011 Exhaust End Interior Platform and Stair 17-001-HR Sheets 1-7 R					A-5/31/02	
STRUC-1	3010	00071	Gas Turbine Document - Calculations and other documentation and Siemens Westinghouse response to Willdan's 4/3 Comments Dwg 17-001-HR.R1	5/17/2002					
STRUC-1	3011	00016	Siemens Westinghouse: Dwg 17-001-HR.R2 General Arrangement 501-FD Inlet Silencer System. Specs 01410 Rev. B -Testing Laboratory Services	9/18/2002 3/18/2002					
STRUC-1	3012	00018	Civil Structural Design Criteria	4/20/2002	4/18/2002	as CBO 00026		N-4/18/02	
STRUC-1	3012	00026	Civil Structural Design Criteria - fixed head moment values for each pile.	4/26/2002 5/17/2002				C-5/15/02	
STRUC-1	3012	00018	Civil Structural Design Criteria			See 00018 & 00026		A-5/15/02	
STRUC-1	3012	00082	Civil Structural Design Criteria Rev. 1	10/3/02 10/24/02				A-11/7/02	
STRUC-1	3013	00019	Gen. Notes & Typical Detail Drawings S101, S680, S685, S690, S980, S981, S984, S985, S988, S989, S991, S993 & S997 Rev.0	04/29/02 4/23/2002				A-4/30/02	
STRUC-1	3013	00027	Gen. Notes & Typical Detail Drawings S101, S685, S690, S980, S981, S984, S985, S988, S989, S991, S993 & S997 Rev.A	4/29/02 5/20/02				A-4/30/02	
STRUC-1	3014	00022	CTG, STG, HRSG Piles Calculations Concrete Filled Pipe Piles, 02484-001-06-001 Rev. O Combust Turb Found Unit 1, 02484-001-06-004 Rev. O Steam Turb Pad Found, 02484-001-08-005 Rev. O Mat Foundation for HRSG and Stack Unit 1, 02484-001-06-001 Rev. O Compos	4/4/02 4/25/02				A-5/8/02	
STRUC-1	3014	00082	Composite Pile Plan: Drawing S110-R1	10/3/02 10/24/02				A-11/7/02	
STRUC-1	3014	000135	Composite Pile Plan: Drawing S110-R2 Pile Section Detail Dwg S111-R1	01/27/03 02/27/03	To Checker 1/29/03	GJB HK	Approved Unstamped	HK to Review and Approve	
STRUC-1	3015	00023	HRSG & Stack foundation Mat Calc 02484-001-06-007 - Unit 2 Foundation Drawings: S305 HRSG Plan Unit #1 Rev. 0 S306 HRSG Plan Unit #2 Rev 0 S307 HRSG Reinforcing Plan Unit #1 Rev 0 S308 HRSG Reinforcing Plan Unit #2 Rev 0 S310 HRSG Section & Details Unit	4/12/02 5/03/02					

WILLDAN CBO PROJECT NO. 13254										
Cond.	Pack. No.	CEO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted Response Documents
				Issued	Due	To Checker	From Response	Plan Check	Status	
STRUC-1	3016	00021	200 Gal Reservoir Hydraulic Power Unit/Sieismic Calc.	04/02/02	04/23/02			A-5/10/02		
STRUC-1	3017	00024	CTG Foundation: Drawings & Calcs. - CTG Foundations Calc 02484-001-06-004 CTG Units 1&2 Found. Rev.0 S205 CTG Units 1&2 Rev 0 S206 CTG Units 1&2 Rev 0 S208 CTG Units 1&2 Rev 0 S210 CTG Units 1&2 Rev 0	4/16/02 5/07/02	05/31/02			A-5/31/02	Approved with 2010 Approved Disposition dated 10/22/02	1 1
STRUC-1	3017	00073	CTG: Revisions and Resubmittal with the new Pile capacities - Calculations for CTG foundations Calculation 02484-001-06-004Rev 1 Dated 9/13	9/19/02 10/31/02				JL	A-10/22/02	see 000772
STRUC-1	3017	00095	CTG Foundation S205 Combustion Turbine Generator Units 1 & 2 Foundation Plan, Rev. 1 dated 10/29/02	11/15/02 11/26/02				hold		BB to research correspondence - Done Confirmed Pile Design Approved 4/09/03
STRUC-1	3018	00030	Pile Testing Revised doc. - ECN 001 Revisions for Specs 02473, Drwg S108, S109,	05/07/02			see 3037	A-5/15/02	Superseded by 3037	1
STRUC-1	3018	00032	Doc. Review by Lowney Associate - ECN 001	05/20/02			see 3037	NA	Superseded by 3037	4 4
STRUC-1	3018	00040	Pile Testing Revised documents ECR 003 Spec 02472 Concrete-filled pipe piles Rev.1 S108, Pile Load Test Plan Rev.2 S109, Test Pile Sections and Details, Rev.2	6/20/02 6/25/02			see 3037		Superseded by 3037	1 NA
STRUC-1	3018	00044	Pile Test Program: Revised Documents - Drwg S108, Pile Load Test Plan, Rev.3	6/27/02 7/19/02	07/23/02	see 3037	7/23/2002		Superseded by 3037	4
STRUC-1	3018	00059	Pile Test Program: (ECR No. 004) Revisions to pile test program based on the test results obtained to date.	8/6/02 8/27/02		see 3037		A-9/26/02	Superseded by 3037	2
STRUC-1	3019	00033	Specifications: 01410, Testing Laboratory Services Rev 0 05120, Structural Steel, Rev. 0 13121 Pre-Engineered Buildings, Rev 0	5/24/02 6/14/02				A-6/14/02		3 3
STRUC-1	3020	00034	Moved to Section 3023 STG Platform Foundation							

**WETCA DOCUMENT SUBMISSION RECORD**  
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WILL DAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates					Comments - Action Required			Submitted	Response	Documents	
				Issued	Due	To Checker	From Checker	Response	Plan Check	Status					
STRUC-1	3020	00036	STG Platform Calcs	Void						JL.	Void				
STRUC-1	3020	00066	STG Platform Calcs 0284-001-06-029 Rev 0 S701, S705, S706, S750, S751, S752, S765, S766, S775, S776, S800, S805, S810, S830 Rev. 0	8/30/02 9/23/02						JL.	10/8/02 will resubmit	10/4 to City of Industry			
STRUC-1	3020	00087	STG Platform: 1 Calc, 25 Drawings	10/28/02 11/18/02	11/06/02	11/19/02	Approval To Eng 01/23/03			JL.	Approved Unstamped	Includes Calc's for Circ-water pipe sup't drwg in 3041-000090 Response from checker was misplaced for a while. Engineer Inquiry 1/2/03		15	15
			Calc 0284-001-06-029 R1, Steam Turbine Generator Platform S700-R0, Structural Steel Drawing List										26	26	
			S701-R1, STG Platform Framing Plan at Elevat 295'-01/2"												
			S705-R1, STG Platform Framing Plan at Elevat 295'-6"												
			S706-R1, STG Platform Framing Plan at Elevat 279'-81/2"												
			S701-R0, STG Platform Mezzanine Level Partial Plan												
			S708-R0, STG Platform Mezzanine Level Partial Plan												
			S750-R1, STG Platform Elevation Along Col. Lines 1, 5 & 2												
			S751-R1, STG Platform Elevation Along Col Lines 3 & 4												
			S765-R1, STG Platform Girt Elev At Col. Line 1,1.5, D, 2&C,4												
			S766-R1, STG Platform Girt Elev Along Col. Lines G & 4,8												
			S775-R1, STG Platform Elevet Along Col. Lines A,B,C&C,4												
			S776-R1, STG Platform Elevet Along Col. Lines D, E, F & G												
			S800-R1, STG Platform Column Schedule												
			S805-R1, STG Platform Base Plate Details												
			S810-R1, STG Platform Steel Sections & Details												
			S811-R0, STG Platform Steel Sections & Details												
			S812-R0, STG Platform Steel Sections & Details												
			S813-R0, STG Platform Steel Sections & Details												
			S830-R1, STG Platform Stair #1 Plans												
			S831-R0, STG Platform Stair #2 Plans												
			S832-R0, STG Platform Stair #3 Plans												
			S833-R0, STG Platform Stair #4 Plans												
			S835-R0, STG Platform Stair #5 Sections												
			S836-R0, STG Platform Stair #6 Sections												
			S837-R0, STG Platform Stair #7 Sections												
STRUC-1	3020	000163	STG Platform: 28 Drawings (this batch was revised by BREI)	4/22/03 5/06/03	04/29/03 05/31/03		GJ			GJ	Approved by Checker	GJ Sent to JL. In City of Industry. Approved by Steve Windmayer	28	28	
			S700 - R1 Structural Steel Drawing List									CBO needs make Disposition and Inform			
			S701 - R2 Framing Plan												
			S705 - R2 Framing Plan												
			S706 - R2 Framing Plan												
			S707 - R1 Mezzanine												
			S708 - R1 Mezzanine												
			*S709 - R0* Checkered Plate												
			S715 - R2 Pedestal Access Platform												
			S750 - R2 Elevations along Column line												
			S751 - R2 Elevations along Column line												
			S752 - R2 Girt Elevations												
			S765 - R2 Girt Elevations												
			S766 - R2 Girt Elevations												
			*S770 - R0* Removable Panel Details												

WILL DAN CBO PROJECT NO. 13254									
Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments - Action Required	
				Issued	Due	To Checker	From Response	Plan Check	Status
			*S771 - R0** Removable Panel Details						
			S775 - R2 Elevations along Column Line						
			S776 - R2 Elevations along Column Line						
			S805 - R2 Base Plate Details						
			S810 - R2 Steel Sections						
			S811 - R1 Steel Sections						
			S812 - R1 Steel Sections						
			S813 - R1 Steel Sections						
			S830 - R2 Stair #1						
			S831 - R1 Stair #2						
			S832 - R1 Stair #3						
			S835 - R1 Stair #1 Section						
			S836 - R1 Stair #2 Section						
			S837 - R1 Stair #3 Section						
STRUC-1	00036		Siemens Westinghouse Documents - Design and Load Calculations for Gland Seal Steam Skid Wv501F Turbine Enclosure Structure-CT Pipe Rack Structure-Design and Load Arrangements and Foot Loads-Design Arrangement and Foot Loads-Design	000-000-125-742 Cales and Fogger Skid Anchorage 000-000-125-740 Found. Loads and Anchoring/Steam Turbine Seismic Loads 000-000-125-714 Struc Cales & Dwgcs	6/27/02 7/10/02	JL	N-7/10/02	Sent to JL (Industry 10/4)	3
STRUC-1	3021	00049	Siemens Westinghouse Documents	000-000-125-742 Cales and Fogger Skid Anchorage 000-000-125-740 Found. Loads and Anchoring/Steam Turbine Seismic Loads 000-000-125-714 Struc Cales & Dwgcs	07/09/02	HK			1
STRUC-1	3021	00093	Design Calculations for Vacuum Pump Skid for Main Steam Condenser - SC-26787-CBO		1/1/02				5
STRUC-1	3021	00106	Siemens Westinghouse Calculation Revisions 1.) CTG Pipe rack structure SWPC-CM-007 2.) Design & load calculations for S1 tube oil module 43237-LOAD 3.) Design & load Calc for leakproof Steam Skid 43277-LOAD 4.)W501F Turbine Enclosure Structure DA 182. 5.)Condenser.		1/12/02				1
STRUC-1	3021	00108	Siemens Westinghouse Doc. Condition of Certification 1.) Steam Turbine Cross-over Pipe Calculations SWPC# 000-000-140-477		1/12/02				3
STRUC-1	3022	00037	Roadway: Moved to CIVIL Section	0/0/00/00 0/0/00/00	0/0/00/00 0/0/00/00				NA
STRUC-1	3022	00056	Roadway: Moved to CIVIL Section	0/0/02/02 0/0/02/02	0/0/02/02 0/0/02/02				1 1
STRUC-1	3022	00062	Roadway: Moved to CIVIL Section	0/0/21/02 0/0/21/02	0/0/21/02 0/0/21/02				3 3
STRUC-1	3022	00113	Roadway: Moved to CIVIL Section	12/6/2002 0/0/00/00	12/6/2002 0/0/00/00				2 2
STRUC-1	3022	000118	Roadway: Moved to CIVIL Section	12/23/02 0/0/07/03	12/23/02 0/0/07/03				8 8

**TECHNICAL DOCUMENT SUBMITTAL RECORD**  
WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates					Comments - Action Required		Submitted	Response	Documents
				Issued	Due	To Checker	From Response	Plan Check	Status				
STRUC-1	3020	00034	STG Platform Piles: Drawings and Calculations 02484-001-06-028 STG Foundation Rev. 0 S120 STG Pile Plan, Rev. 0				see00066 10/7/02	JL	6/24/2002	Approved but it was resubmitted as 3023 STG Platform Foundation Approved before Soil Analysis Change	2	2	
STRUC-1	3023	00038	STG Platform Foundation: 7 Drawings: 1 Calculation Calc: 02484-001-06-028, R1 STG	06/19/02 07/11/02			07/23/02	DN		David Newman responded with 8 comments	8	8	
			S120-R1, Steam Turbine Platform Pile Plan										
			S125-R0, Steam Turbine Platform Foundation Plan										
			S135-R0, Steam Turbine Platform Pile Cap Details										
			S190-R0, Steam Turbine Platform Sections & Details										
			S191-R0, Steam Turbine Platform Sections & Details										
			S192-R0, Steam Turbine Platform Anchor Bolt Schedule										
			S193-R0, Steam Turbine Platform Enlarged Foundation Plan										
STRUC-1	3023	00061	STG Platform Foundation: 1 Letter, 1 Calc, 2 Drawings	8/15/02 9/15/02	10/04/02			JL		BREI responds to DN comments	4	4	
			Letter: 8/15/02 Response to CBO comments										
			Calc: 02484-001-06-028 R2, STG Platform Foundation Design										
			S125-R1, Steam Turbine Platform Foundation Plan										
			S180-R0, Steam Turbine Platform Sections & Details										
STRUC-1	3023	00088	STG Platform Foundation: 1 Calc. 6 Drawings, 1 Calc.	10/28/02 11/18/02	11/06/02			EM GJ		Calcs only to GJ on 11/6/02	7	7	
			Calc: 02484-001-06-028, R3 STG Platform Foundation Design										
			S120-R2, Steam Turbine Platform Pile Plan										
			S125-R2, Steam Turbine Platform Foundation Plan										
			S135-R1, Steam Turbine Platform Pile Cap Details										
			S190-R2, Steam Turbine Foundation Sections & Details										
			S191-R1, Steam Turbine Foundation Sections & Details										
			S192-R1, Steam Turbine Platform Anchor Bolt Schedule										
STRUC-1	3023	00096	STG Platform Foundation Plan, Dated 11/01/02 S193-R1	11/5/02 11/26/02	11/06/02			EM GJ			1	1	
STRUC-1	3023	00103	STG Platform Foundation: Response by Burns and Roe, Revised Drawing	1/10/03 12/04/02	0/15/03			GJ			2	2	
			Letter: 1/1/03 Response to CBO comments										
			S192-R2, Steam Turbine Platform Anchor Bolt Schedule										
STRUC-1	3023	000131	STG Platform Foundation: 1 Letter, 2 Calc, 11 Drawings	0/17/03 0/20/03	0/12/03			GJ			14		
			1 Letter: 1/17/03 Response to CBO comments										
			Calc: 02484-001-06-039, R0 Design of Slat STG										
			Calc: 02484-001-06-040, R0 STG Stair Tower- Foundation										
			S120-R0, STG Platform Pile Plan										
			S125-R3, STG Platform Foundation Plan										
			S135-R2, STG Platform Foundation Pile Cap Details										

WILDCAT DOCUMENT SUBMITAL RECORD									
CBO, CDR, CDRN, CDRP, and CBO									
WILLDAN CBO PROJECT NO. 13254									
Package Title			Review /Approval Dates						
Cond.	Pack. No.	CBO No.	Issued	Due	To Checker	From Checker	Response	Plan Check	Status
		S160-RO, STG Area Slab Plan At E1:255'-6"	1/17/03						

**WILLDAN CBO PROJECT NO. 13254**

**MECHANICAL DOCUMENT SUBMITTAL RECORD**

**STRUCTURE AND CO.**

Cand.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required		Submitted	Response	Documents
				Issued	Due	To Checker	From Response	Plan Check	Status			
			S161-R0, STG Area Enlarged Slab Plan "1" At E1.255'-6"									
			S162-R0, STG Area Enlarged Slab Plans "2 & "3" At E1.255'6"									
			S170-R0, STG Area Slab Plan At E1.285'-0 1/2" (Operating Floor)									
			S171-R0, STG Area Elevated Slab Details (Operating Floor)									
			S180-R3, STG Platform Foundation Sections & Details									
			S191-R3, STG Platform Foundation Sections & Details									
			S192-R3, STG Platform Anchor Bolt Schedule									
STRUC-1	3023	000173	<b>STG Platform Foundation:</b> 2 Drawings	6/10/03	6/24/03							
			S171-R1, STG Area Elevated Slab Details (Operating Floor)									
			S193-R2, Steam Turbine Platform Enlarged Foundation Plan									
STRUC-1	3023A	00065	<b>STG Access Stair:</b> 1 Drawing, 1 Calc.	09/20/02					GJ	BB to research correspondence		
			Calc. 024-0011-06-030 Escalator Access Stairs & Platform									
			S720-R0, Escalator Access Platforms Plan Sections & Details									
STRUC-1	3023A	000133	<b>STG Access Stair:</b> 1 letter, 1 drawing	01/17/03 02/07/03	01/29/03			GJ				
			Letter: 11/15/03 Response to CBO Comments									
			S720-R1, Access Platform									
STRUC-1	3024	00039	<b>Visual Screen Foundation:</b> Design Loads - Calculations and Dwg. SS-1-A, Foundation Load Plan	6/20/02 7/12/02	07/23/02	See 00068		N-7/23/02		10		
STRUC-1	3024	00058	<b>Visual Screen:</b> Detail Calculations and Dwg. SS1 to SS9	8/02/02 8/23/02					Need comments back, more detail	1	1	
STRUC-1	3024	00068	<b>Visual Screen:</b> Burns & Roe Response to Willdan-David Newman Foundation Load Plan dwg SS1-A	09/06/02 09/27/02	To Check 10/29/02	From Check 10/30/02	GJ EM	Approved Unstamped	Bar found approval comments 1/29/03	11	11	
			Visual Screen: 1 Calc, 10 Dwgs; Calculation GGH# 201044.03									
			SS-1, Rev 1 Foundation Plate Details - Not Approved									
			SS-2, Rev 1 Foundation Plate Details - Basic Foundation Piers Approved									
			SS-3, Rev 1 Foundation Pile Cap Detail PC-8C									
			SS-4, Rev 1 Foundation Pile Cap Detail PC-8A & Pile Section									
			SS-5, Rev 1 Foundation Pile Cap Detail PC-6A									
			SS-6, Rev 1 Foundation Pile Cap Detail PC-8B									
			SS-7, Rev 1 Foundation Pile Cap Detail PC-8D									
			SS-8, Rev 1 Foundation Pile Cap Detail PC-20A									
			SS-9, Rev 1 Piers on Two HRSG Bases - Net Approved									
			Specifications 02740-3200 (Aggregate Base Coarse Asphalt, paving, concrete reinforcement)									
STRUC-1	3025	00041		6/24/02 7/16/02				A-7/23/02	Will resubmit 2 copies	6		

**Status:**  
14" File Design Approved  
Basic Foundation Piers Approved  
**Required:**  
Base Plate Calculations  
(SS-2 Not Approved)  
Galleteries of HRS-G #E-Euler  
(SS-9 Net Approved)

**WILLDAN DOCUMENT SUBMISSION RECORD**  
FOR THE YEARS 2001 AND 2002

**WILLDAN CBO PROJECT NO. 13254**

Conid.	Pack. No.	CBO No.	Package Title	Review /Approval Dates					Comments - Action Required		Submitted	Response	Documents
				Issued	Due	To Checker	From Response	Plan Check	Status				
STRUC-1	3026	00042	Pile Submittals-MORT.01-00-0002 Pile Driving Hammer MORT.01-00-0003-Pile Driving Crane Data Sheet MORT.01-00-0004-Pile Driving Analyzer Data Sheet MORT.01-00-0005-Ground Vibration Equipment Data MORT.01-00-0006-Noise Monitoring Plan MORT.01-00-0009-Pile L	06/26/02	To Check 10/04/02			JL		Sent to JL (Industry 10/4) May have been returned. Needs "Black-Box" review			
STRUC-1	3027	00043	Cooling Tower calcs Rev. 0	6/27/02 7/22/02					N-7/23/02	Rejected			
STRUC-1	3027	00060	Cooling Tower Foundation: Burns & Roe response to 00043 Calculations 02484-001-06-010 Rev 1 and drawings S350, S351, S352, S355, S356, S357 AND S363 Rev 1	8/12/02 9/04/02	10/10/02		see CBO 00076		10/10/02				
STRUC-1	3027	00076	Cooling Tower: Dwg& Calc. Cooling tower Basin redesign for pile capacity Calcs 02484-001-06-010 Rev 2, S350,-S351, S352, S355, S356, & S363 Rev 2 dated 9/24/02	10/9/2002					C-10/15/02	Approved	Conditionally approved by Don Wimberly Approved Disposition dated 10/22/02		
STRUC-1	3027	00094	Cooling Tower: Piles in Pump Pit Area and Inlet Header Foundations Pump Pit Found Calcs 02484-001-06-011 Rev. 0	11/04/02 11/18/02	To Checker 11/08/02	Fro Check 11/13/02	To Engineer EM GJ	Approved Unstamped			CT Piles (less pump pit area) were approved via BB e-mail on 11/13/02 with comments resulting in correspondence. Pump pit structure comments were significant. Pump area was re-designed and submitted on CBO #A000117 on 12/23/02		
STRUC-1	3027	00101	Cooling Tower Structure & Foundations S360, S361, S364, S365, S366, S367, S368 Rev 0 dated 11/01/02Calcs 02484-001- 06-011submitted in previous packet.	11/07/02 11/29/02	To Checker 11/13/02	Fro Check 11/18/02	To Engineer EM GJ	Re-designed					
STRUC-1	3027	00115	Cooling Tower Foundation: Drawings: S355 R3, S356 R3, S357 R3, S362 R0, S363 R3, S368 R1	12/11/02 1/02/03	To Checker 12/13/02	Fro Check 12/20/02	To Engineer GJ	Not Approved			Comments need response from engineer		
STRUC-1	3027	00117	Cooling Tower Pump Structure Dwg& Calc. Calc: 02484-001- 06-011 Draw: S361 R1, S364 R1, S365 R1, S368 R1, S367 R1, S368 R2	1/22/03/02 01/15/03	To Checker 01/07/03		GJ						
STRUC-1	3027	000125	Cooling Tower Foundation: Drawings, Response to Comments drgs: S355 R4, S356 R4, S357 R4, S362 R1, S363R4	01/03/02 01/23/03	To Checker 01/09/03	From Check 01/21/03	Approved GJ	Approved Unstamped					
STRUC-1	3027	00127	Cooling Tower Pump Structure: Supplemental Drawing S860R0 Access Stair	01/07/03 01/28/03	To Checker 01/09/03								
STRUC-1	3028	00045	STG Pedestal: 17 Drawings 1 Calc.	6/27/02 7/22/02					7/23/2002	DN	Not Approved	Significant number of comments by David Newman on July 23 2002 but replied to on 3032-0000055 (below) and later approved.	
			Calc: 0284-001-06-005, R0									* S245-R0, STG/Generator Pedestal Foundation Plan	
												* S246-R0, STG/Generator Pedestal Foundation Sections & Detail	
												* S247-R0, STG/Generator Pedestal Misc. Sections & Details	
												* S250-R0, STG/Generator Pedestal Operating Floor Plan	
												* S255-R0, STG/Generator Pedestal Operating Floor Extended Plan	
												* S256-R0, STG/Generator Pedestal Concrete Section	

WILLDAN CBO PROJECT NO. 13254									
Cond.	Pack. No.	CBO No.	Package Title	Review /Approval Dates				Comments - Action Required	
				Issued	Due	To Checker	From Response	Plan Check	Status
			S266-R0, STG/Generator Pedestal Concrete Section						
			S267-R0, STG/Generator Pedestal Concrete Sections						
			S268-R0, STG/Generator Pedestal Concrete Sections						
			S269-R0, STG/Generator Pedestal Concrete Sections						
			S270-R0, STG/Generator Pedestal Concrete Sections						
			S271-R0, STG/Generator Pedestal Concrete Sections						
			*						
			S272-R0, STG/Generator Pedestal Concrete Sections						
			*						
			S273-R0, STG/Generator Pedestal Concrete Sections						
			*						
			S275-R0, STG/Generator Pedestal Embedment Sections & Detail						
			S276-R0, STG/Generator Pedestal Embedment Sections & Detail						
			STG Pedestal:						
STRUC-1	3032	00055	1 Letter, 4 Drawings	08/01/02	08/22/02	xx	xx	10/28/02	JL Approved
			Letter: 8/01/02 Response to CBO comments of 7/23/02						5 5
			S246-R1, STG Pedestal Foundation Sections & Details						
			S272-R1, STG Pedestal Concrete Sections						
			S273-R1, STG Pedestal Concrete Sections						
			S275-R1, STG Pedestal Embedment Sections & Details						
STRUC-1	3028	00081	STG Pedestal Foundations Piling: 2 Calculations and 1 Drawings	10/03/02 10/10/02				10/28/2002	JL Approved
			Calc. 0284-001-06-005-R2 STG Pedestal Pile Foundation Design						
			Calc. 0284-001-06-005-R1 STG Pedestal Pile Foundation Design						
			S240-R1, STG Pedestal Pile Foundation Plan						
STRUC-1	3028	00154	STG Pedestal: 11 Drawings:	3/21/03 4/04/03	05/30/03	06/04/03	GJ	Approved 7/01/03	One comment on Rebar spacing affecting 1 drawings only resolved between checker
			S245-R1, STG Pedestal Foundation Plan	approved					
			S246-R2, STG Pedestal Foundation Sections	approved					
			S247-R1, STG Pedestal Misc. Sections	>>					Mirror revision required
			S250-R1, STG Pedestal Operating Floor Plan	approved					
			S255-R1, STG Pedestal Operating Floor Imbedment Plan	approved					
			S265-R1, STG Pedestal Concrete Section	approved					
			S269-R1, STG Pedestal Concrete Sections	approved					
			S270-R1, STG Pedestal Concrete Sections	approved					
			S271-R1, STG Pedestal Concrete Sections	approved					
			S275-R2, STG Pedestal Imbedment Sections	approved					
			S276-R1, STG Pedestal Imbedment Sections	approved					
									3
STRUC-1	3028A	00098	STG Pedestal Access Platform: 1 Calculation, 1 Drawing	11/07/02 11/27/02	11/25/02	Fro Check	To Engineer	GJ 1/15/03	Significant comments on drawing S715 and one calculation comment precludes
			Calcs. 02484-001-06-033, STG Platform 275'-6" Steel Design						
			S715-R0, STG Pedestal Access Platform						
STRUC-1	3028A	000145	STG Pedestal Access Platform: 1 Letter, 1 Drawing	02/28/02 03/14/02	03/07/03		GJ		2
			Letter: 2/28/03 Reponse to CBO comments 1/14/03						
			S715-R1, STG Generator Pedestal Access Platform						

TELETYPE DOCUMENT SUBMITTAL RECORD  
CALIFORNIA BURLAIS

WILLDAN CBO PROJECT NO. 13254

**WILL DAN DOCUMENT SUBMISSION RECORD**  
1. INDEXES & INDEXES

**WILL DAN CBO PROJECT NO. 13234**

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates					Comments - Action Required		Submitted Documents	Response
				Issued	Due	To Checker	From Response	Plan Check	Status			
STRUC-1	3029	00047	CTG: S206ctg Units 1& 2 Rev 1	07/22/02 07/25/02					C-9/30/02 Verbal	Disposition dated 10/9/02		4 0
STRUC-1	3029	000120	CTG Containment Trench: Draw/Cals calc# 02484-001-06-041 draw: S225 R0, S226 R0, S227 R0	12/27/02 01/20/03	01/07/03	From Check 1/15/03			GJ	BB to review & prepare comment. Minor Comment:expansion joint		1 1
STRUC-1	3030	00052	Drawing S108, Rev 4	07/23/02 08/12/02						A-9/30/02		2 2
STRUC-1	3031	00053	Precast Concrete Electrical Manholes, Rev 0 Spec. 02885 02315 Earthwork Rev 0	07/26/02 08/16/02						C-10/9/02		2
STRUC-1	3031	00079	Earthwork Specifications: 2. Specifications	09/30/02 10/17/02						EM	Being reviewed by Eric Moran	
			Spec. 02315 Rev 1 Earthwork									
			Spec. 02821 Rev 0 Chain Link Fences and Gates									
STRUC-1	3031	000143	Earthwork Specification: Spec. 02315, Rev. 2	03/10/03 No rsp reqd					RS			0 0
STRUC-1	3032	000055	Moved to Section 3028	08/01/02 08/22/02								
STRUC-1	3034	000063	BOP Electrical / Control Building: 1 Calculation, 8 Drawings	08/22/02 09/13/02	1/28/2003	02/03/03	verbal CBO meeting 2/04		EM	Approved Unstamped	History: Not listed here till 1/1/26/02. Sent to EM on 10/16/02 Re-sent as noted. EM approved over phone	1 0
			Calc: 0284-001-06-032									
			A100-R0									
			A105-R0									
			A131-R0									
			A133-R0									
			A140-R0									
			A141-R0									
			A150-R0									
			A158-R0									
STRUC-1	3034	000174	BOP Electrical / Control Building: 11 Drawings	6/10/03 6/24/03								
			A131-R1, BOP Elec/Ctrl Bid Roof Plan									
			A133-R1, BOP Elec/Ctrl Bid Typ Roof Penetration Details									
			A140-R1, BOP Elec/Ctrl Bid South & East Elevations									
			A141-R1, BOP Elec/Ctrl Bid North & West Elevations									
			A150-R1, BOP Elec/Ctrl Bid Wall Sections & Partition Types									
			A158-R1, BOP Elec/Ctrl Bid Misc Wall Sections & Details									
			A175-R1, BOP Elec/Ctrl Bid Door & Finish Schedules & Types									
			A180-R1, BOP Elec/Ctrl Bid Typ Door Frame & Louver Details									
			S620-R1, BOP Elec/Ctrl Bid Roof Framing Plan									
			S621-R1, BOP Elec/Ctrl Bid Roof Slab Plan									

WILLDAN CBO PROJECT NO. 13294										
Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates			Comments - Action Required	Documents		
				Issued	Due	To Checker	From Checker	Plan Check	Status	
			S622-R1, BOP Elec/Ctr Bid Sections & Details							
STRUC-1	3035	00085	Siemens STG Enclosure	10/15/02 11/04/02						2 0
STRUC-1	3036	00070	CTG Inlet Air Filter & Silence Foundation: Calcs 02484-001-06-027 Rev 0 Drawing S220 Rev 0	09/17/02 10/01/02						3 0
STRUC-1	3036	000075	CTG: Drawings & calculations sound Barrier CTG Inlet Calcs 02484-001-06-031 Rev. 0 dated 9/19 Dwg S768 Units 1&2 Rev 0 and S769 Units 1&2 Rev 0	09/25/02 10/18/02						9 0
	3036	000129	CTG: Air Filter Housing Structural Steel Calculations and drawings, Siemens / Carlton Eng / Pneumafl Mfg	01/13/03 02/03/03		Pending				Package needs to be reviewed by Structural Eng Secondary to Main Concrete Foundations
STRUC-1	3036	000129	CTG Equipment: Starter Package 1-Calculations 9-Drawings	04/07/03 04/28/03						
STRUC-1	3036	000168	CTG Equipment:Noise Abatement Structure 1 Calculation Booklet	05/07/03 05/28/03	05/22/03		Gu HK			4 4
STRUC-1	3037	00072	Pile Load Testing; Lowney's conclusions and Recommendations and the following documents: Pile driving records (for all 27 piles)-PDA results (for all 27 piles)- CAPWAP results (for 24 blows on 14 separate piles)-Pile load test results-Specs 02472 Rev. 1,	09/19/02			Supersedes 3018	A-10/22/02		replaces all of 3018 per transmittal records this submittal is part of 3017 CBO 00073

**TECHNICAL DOCUMENT SUBMISSION RECORD**  
DRAFT LINE 32A AND CBO

WILLDAN CBO PROJECT NO. 13244

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments - Action Required		Documents
				Issued	Due	To Checker	From Response	Plan Check	Status	
STRUC-1	3038	00077	PDC's: Moved to ELECT Section	09/25/02 10/09/02						3 3
STRUC-1	3039	00078	Boiler Feedwater Pump Foundation: Calc 02484-001-06-016 Drawing S320 Rev.0, Section and Details S321 Rev. 0	09/27/02						1
STRUC-1	3040	00082	Circ Water Pipe Support : Dwg S730, Rev. 0 Referred to Calc from STG Platform 3020	10/03/02 10/24/02						1 1
STRUC-1	3041	00090		10/30/02 11/21/02	To Check	From Check	To Engineer	JL	Not Approved	Calcs from 3020-00087 STG Platform Major Comment. Watch this one.
STRUC-1	3028B	000152	Circ Water Pipe Support: 1 Calculation, 1 Drawing	03/12/03 03/24/03						2 2
			Calcs. 02484-001-06-029-R2, STG Platform Foundation Design S730-R1, Cir. Water Pipe Support Frame Plan Sec & Detail							
STRUC-1	3042	00092	Pipe Rack Structure: Calcs 02484-001-06-022, Pipe Rack Steel Design, Rev. 0 Dwgs S900, S901, S902, S903, S904, S905, S906, S930, S931, S932, S940, S941, S942, S943, S944, S945, S950, S951, S952, S953, S954, S955, S956, S958, S959, S965 Rev 0 dated 10/	10/31/02 11/22/02	To Checker	Fro Check	To Engineer	GJ	Not Approved	Major Scope: Significant number of comments need to be resolved
STRUC-1	3042	00111	Pipe Rack Foundation and Piles: Drawings & Calculations Pipe Pile Foundation, Calc# 02484-001-06-023 R0, Draw#: S530R0, S540R0, S550R0, S551R0, S552R0, S553R0	11/29/02 12/19/02	To Checker	Fro Check	To Engineer	GJ-EM	Not Approved	Eng. needs to get pile comment resolved. Remaining comments can be resolved later
STRUC-1	3042	000123	Pipe Rack Foundation and Piles: Response to CBO comments, Calc# 02484-001-06-023 Dwgs: S540 R1, S552 R1, S553 R1	12/31/02 01/22/03	To Checker	From Check	Recom'd Approve	GJ		BB to review & prepare comments. Minor comment: Add a note on dwg: 540
STRUC-1	3042	000132	Pipe Rack Foundation: New Steel Platforms Calculation 02484-001-06-044-R0, Pipe Rack-Misc. Steel Platform Design Drawing S933-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections Drawing S934-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections Drawing S934-R0, Pipe Rack Misc. Access Platform Framing Plans, Sections	01/17/02 02/08/03	To Checker	01/23/03				30
STRUC-1	3042	000140	Pipe Rack Steel Structure: 1 Calculation 29 Drawings Dwgs: S550R2, S560R1, S900R1, S902R1, S930R1, S931R1, S932R1, S940R1, S941R1, S942R1, S943R1, S944R1, S945R1, S950R1, S951R1, S952R1, S953R1, S954R1, S955R1, S956R1, S957R1, S958R1, S959R1, S966R1, S967R1 Calc# 02484-001-06-22-R1	02/06/03 2/28/2003				GJ		
STRUC-1	3042	000155	Drawings for Pipe Rack Foundations Drawing S560-R2, Pipe Rack Foundation plan Drawing S550-R1, Pile Cap Details Drawing S551-R1, Pile Cap Details Drawing S552-R2, Pipe Rack Foundation Sections and Detail	03/21/03 04/04/03						5 0

**LEGAL DOCUMENT SUBMITTAL RECORD**  
WILL DAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments - Action Required		Submitted Documents	Response
				Issued	Due	To Checker	From Response	Plan Check	Status		
STRUC-1	3044	00097	STG Main Step-up Transformer: Cals 02484-001-06-008 Units #3 dated 11/01/02- Drawgs S567, S570, S577, S578 dated 11/01/02	11/07/02	11/27/02				GJ		3
STRUC-1	3044	00110	STG Main Step-up Transformer: Drawings / Cales Calc# 02484-001-06-008 R1, Draw# S577R1, S578 R1	12/05/02	12/19/02	To Checker	From Check	To Engineer	GJ-EM	Not Approved	Comments need response from engineer
STRUC-1	3044	00012B	STG Main Step-up Transformer: Response to CBO Comments Drawings / Cales Calc# 02484-001-06-008 R2, Draw#: S577R2, S578 R2	01/08/03	01/29/03	To Checker	From Check	Approved	Approved		1
STRUC-1	3045	000100	Piles: Concrete-Filled Pipe Piles; Specs 02472-R2	11/08/02	11/14-03						0
STRUC-1	3045	000137	Piles: Concrete-Filled Pipe Piles; Specs 02472-R3	11/29/02	01/28/03						0
STRUC-1	3046	000102	HRSG: Drawing & Calculations for HRSG Unit 1- Cals 02481-001-06-006 Mat Foundation for HRSG & Stack for Unit 1 Rev. 1 dated 11/07/02 - S300 HRSG Pile Location Plan, Unit 1 Rev Dated 11/07/02	11/07/02	11/29/02	To Checker	Fro Check		GJ-EM	Incomplete	4
STRUC-1	3046	000112	HRSG Foundation Drawings - S305, S307, S310, S313	12/03/02	12/24/02	To Checker	Fro Check	To Engineer	GJ-EM	Not Approved	Comments need response from engineer
STRUC-1	3046	000124	HRSG: Response to CBO Comments and Revised Foundation Plans Dwg: S305 R2, S310 R2	12/31/02	01/22/03	To Checker	From Check	Approved	GJ	Approved	Unstamped
STRUC-1	3046	000142	HRSG: Foundation 8 Drawings S305-R3 Foundation Plan Unit 1 S306-R1 Foundation Plan Unit 2 S307-R2 Reinforcement Plan Unit 1 S308-R1 Reinforcement Plan Unit 2 S310-R3 Section Details Units 1&2 S311-R1 Section Details Units 1&2 S313-R2 Anchor Details Units 1&2 S315-R0 Equip Foundations Units 1&2	2/10/03	2/21/03						
STRUC-1	3047	00109	CTG Main Step-up: Drawings & Calculations for Unit #1 & #2 CTG Main Step-up and Auxillary Transformer Foundation Calc# 02484-001-06-036 Draw#: S577R0, S578R0, S576R0, S579R0	02/20/03							7
STRUC-1	3048	00114	Condensate Pump Foundation: Drawing and Calculation, calc# 02484-001-06-038 draw: S260R0	2/11/03							0
STRUC-1	3049	00116	CTG Foundation Units 1&2 Drawing S208 R2	12/17/02	12/18/02	To Checker			GJ	Bart to Research Correspondence This goes with Sub# 3017	1
STRUC-1	3050	000119	Manholes & Covers Specification 02607	12/23/02	01/15/03						0

WILLDAN CBO PROJECT NO. 13254									
Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments - Action Required	
				Issued	Due	To Checker	From Checker	Plan Check	Status
STRUC-1	3051	000122	Station Service Transformer Foundations Dwgz/Calcs calc# 02484-001-06-037 dwgs: S570 R1, S575 R1	12/30/02 01/21/03	To Checker 01/07/03 01/15/03	GJ		BB needs to review and prepare comments. Distance between Trans and wall verify.	
STRUC-1	3052	none	Admin Building: Bechtel 3 Drawings: Dwg A1-8110, Dwg A2-8150, Dwg A5-8110	11/06/01					
STRUC-1	3053	000144	Excitation Transformer Foundation: 1 Drawing 1 Calc: Calculation: 02484-001-60-043-R0	02/19/03	03/07/03	GJ			
STRUC-1	3054	000158	Circuit Breaker (CB) Platform for CTGs: 2 Calcs, 3 Dwg: Calculation: Foundation 02484-001-60-025-R0 Calculation: Steel Platform 02484-001-60-048-R0 Dwg: S601-R0 CTG Units 1&2 CB Platform Foundation Dwg: S880-R0 CTG Unit #1 CB Platform Structure Dwg: S881-R0 CTG Unit #2 CB Platform Structure	3/26/03 4/09/03	04/10/03	GJ			
STRUC-1	3055	000162	Water Tanks: Fire-Water & Demineralized: 1 Calcs, 2 Dwg: Calculation: Tank Foundation 02484-001-06-012-R0 Dwg: S519-R0 Water Tank Pile Layout Dwg: S111-R2 Pile Sect. Details Revised for Tank Piles	4/17/03 4/25/03	04/22/03	04/24/03	GJ	High Priority Review of piles needed Approved based on verbal clarifications	
STRUC-1	3055	000167	Water Tanks: 1 Calcs, 2 Drawings: Calculation:# 02484-001-06-012-R1 Dwg: S519-R1 Demineralized & Firewater Tanks Dwg: S110-R3 Composite Pile Plan	5/02/03 5/10/03	05/06/03				
STRUC-1	3056	000164	Ammonia Tank Piles: 1 Calcs, 1 Dwg: Calculation:# 02484-001-06-020-R0	4/25/03 5/02/03	04/29/03	GJ			
STRUC-1	3057	000165	Gas Compressor Piles: 1 Calcs, 1 Dwg: Calculation:# 02484-001-06-048-R0 Dwg: S664-R0 Gas Compressor Foundation & Pile	5/01/03 5/09/03	05/06/03	GJ	High Priority Review		
<b>Total:</b>									
A-Approved									505
I-Accepted as for information only									327
N-Not approved, returned with comments,									
C-Approval Conditioned upon submittal of add'l info or replacement									

P- Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CBO.

D- Discussion pending between CBO, Engineer, Geotech, Inspector or other party

H- On hold by Martinson/Capline

R- Reversal of approval pending resolutions from outside agencies.

**EXCELSIOR SUBMITTAL RECORD**  
PROJECT NUMBER: 13264

**WILLDAN CBO PROJECT NO. 13264**

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates			Comments	Submitted	Response
				Issued / Due	To Checker	From Check			
MECH-1	4002	000080	Piping System P&IDs: MT-P-2015-AST-001 Rev.1, Ammonia Storage MT-P-2079-SWS-001 REV. 1, MT-P-2080-SWS-001 REV.2, MT-P-2081-SWS-002 REV.2, MT-P-2052-FWS-001 REV 2, Fire Water MT-P-2053-FWS-002 REV 2, Fire Water MT-P-2003-GEN-003 REV.0, MT-P-2004-GEN-004 REV.0, MT-P-2005-GEN-005 RE	10/1/2002 10/22/2002					
MECH-1	4002	000086	Waste Water Collection P&ID: 4 Drawings: MT-P-2084-WWC-001- 1 of 4, MT-P-2085-WWC-002- 2 of 4 MT-P-2086-WWC-003- 3 of 4 MT-P-2087-WWC-004- 4 of 4 Rev 1 dated 10/17/02 Circulation Water System: 1 Drawing MT-P-2042-CWS-00- 1of 3 Rev. 2 Fuel Gas P&ID: 3 Drawings MT-P-2046-FGS-001- 1 of 6, MT-P-2047-FGS-002- 2 of 6 MT-P-2046-FGS-003- 3 of 6 Fire Protection Arrangement: 1 Drawing Dwg M203-R1	10/21/2002 11/1/2002					9
MECH-1	4002	000149	Fire Protection Arrangement: 1 Drawing Dwg M203-R1	none				Send to Greg Carr	8
MECH-1	4003	000091	Fire Protection: 1 Spec and 4 Drawing Specification - Fire Risk Evaluation-Rev B M201 General Arrangement Plan at Grade M203 Fire Protection Arrangement MT-P-2052-FWS-001-R2 Fire Water P&ID MT-P-2053-FWS-002-R2 Fire Water P&ID	10/30/2002 11/21/2002			GC		1 1
MECH-1	4003	000139	Fire Protection: 1 Drawing: General Arrangement Plan View M201-R2 Fire Protection 6 Drawing MT-P-2042-CWS-001 Circulating Water System MT-P-2043-CWS-002 Circulating Water System MT-P-2044-CWS-003 Circulating Water System MT-P-2052-FWS-001 Fire Water MT-P-2053-FWS-002 Fire Water	01/30/03 02/22/03	02/03/03		HK	New	5 5
MECH-1	4003	000166	Mechanical Design Criteria: Specification #	5/1/2003	05/07/03		GC		1 1
MECH-1	4004	000105	Drawings Requested By CBO	11/21/02					In review of Fire Protection MTP-2052-FWS-001
MECH-1	4004	000XXX	Burns & Roe NJ Review: 188 Drawings Various BREI Mechanical Drawings	01/20/03					Refer To Excel Spreadsheet "Audit NJ Brkl Dwg.xls" For detailed list of documents
MECH-1	4011	xxxx					HK		283 283

THE CALIFORNIA SUBMITAL RECORD  
CITY OF LOS ANGELES, CALIFORNIA

WILLI DAN CBO PROJECT NO 13254

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**WILLDAN CBO PROJECT NO. 13254**  
**DOCUMENT SUBMISSION RECORD**  
**WILLDAN AND CBO**

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments		Documents	
				Issued Due	To Checker	From Checker	Reply	Plan Checker	Status	BS = Bob Snyder	Submit Respond
ELEC-1	5001	000046	Electrical Grounding: 20 Drawings 1 Calculation: E200R0, E201R0, E202R0, E203R0, E204R0, E205R0, E206R0, E207R0, E208R0, E209R0, E210R0, E211R0, E212R0, E213R0, E214R0, E215R0, E216R0, E217R0, E230R0, E231R0, E232R0, E233R0	6/28/2002	xx	xx	05/15/03	BS ES	Approved		21 21
ELEC-1	5001	000050	Electrical Grounding: 11 Drawings & 1 Calculation E201, E203, E205, E207, E208, E209, E210, E212 E213, E215, E216, 2484-01-07-006 Rev. 1	7/18/2002	xx	xx	10/22/02	BS ES	A-10/22/02		12 12
ELEC-1	5001	000067	Cable Sizing Calc: Underground: 02484-01-07-011 R0 Above Ground: 02484-01-07-012 R0	8/8/2002				ES			2 0
ELEC-1	5001	000150	Underground and Above Ground Cable Sizing Calc: 2. Calculation: Calculation 02484-01-07-011, R1 Underground Cable Sizing Calculation 02484-01-07-012, R1 Above Ground Cable Sizing	5/11/03 04/02/03	05/29/03	06/11/03		ES	Approved		2 2
ELEC-2	5002	000057	Electrical One-Line Drawings: 20 Drawings E101, E102, E103, E105, E106, E107, E108, E109, E110, E111, E113, E114, E120, E121, E122, E123, E124, E125 REV 0	8/2/2002 8/23/2002	10/15/02	xx	10/09/03	ES	C-10/17/02	Conditionally approved but it was later determined: Drawing E104 was needed	18 18
ELEC-2	5002	000104	Electrical Single-Line Drawing: Draw: E104 R1 sent in response to 2/12/03 letter	1/11/02	1/12/2002		02/11/03	ES	Not Approved	Second review after receiving E-104 reveals significant comments	0 18
ELEC-2	5002	No Sub Number	Electrical Single-Line Drawings: E126B, E126A, E130B, E131B, E132B, E133A, E134A, E140A, E141B, E142B, E143A, E160R0, E161R0, E180A, E181A, E184A, E185A, E188A	xx/xx/xx				ES	Not Approved	Significant Number of comments sent to B&R via E-mail	1 1
ELEC-2	5002	000151	Electrical One-Line Drawings: 1 Letter, 23 Drawings E101-R1, Electrical Symbols Sheet 1 E102-R1, Electrical Symbols Sheet 2 E103-R2, Electrical Symbols Sheet 3 E104-R2, Key One Line Diagram E105-R1, Electrical Main One Line Diagram CTG #1 E106-R1, Electrical Main One Line Diagram CTG #2 E107-R1, Electrical Main One Line Diagram STG E108-R2, 4160V Switchgear Bus 001A & 001B E109-R2, 4160V Switchgear Bus 001A One Line Diagram E110-R2, 4160V Switchgear Bus 001B One Line Diagram E111-R2, 4160V Switchgear Bus 001B & STBY Gen E113-R2, 4160V Cooling Tower MCC 011A E114-R2, 4160V Cooling Tower MCC 011B E120-R2, 480V Switchgear Bus 001A One Line Diagram E121-R2, 480V Switchgear Bus 001B One Line Diagram E122-R2, 480V Switchgear Bus 002A One Line Diagram E123-R2, 480V Switchgear Bus 002B One Line Diagram E126-R1, 480V Balance of Plant mce 1-00-ELA-MC-021A E130-R1, 480V HRSIG #1 MCC 1-01-ELA-MC-014A E131-R1, 480V HRSIG #2 MCC 1-02-ELA-MC-014B E132-R1, 480V Essential Svcs MCC 1-00-EGS-MC-001 E133-R1, 480V Water Treatment 1-00-ELA-MC-022A E134-R1, 480V Water Treatment 1-00-ELA-MC-022B						These drawings were obtained by CBO at plant around mid-November. Elips prepared some comments. Drawings are preliminary and not for release and not officially submitted, so comments are being held by CBO		
ELEC-1	5003	000074	Electrical Drawing-Underground conduits: 55 Drawings:	09/20/02	09/30/02	12/11/02	Response 12/17/02	ES	Conditional Approval	Major Scope Resulting a significant number of comments that need to be resolved by the engineer.	55 55

## WILLDAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments	Documents	
				Issued Due	To Checker	From Checker	Plan Checker		Submit	Respond
			E354, Rev 0, E300, E316, E319, E322, E323, E324 E326, Rev. 1					Not Stamped	Response by engineer in CBO-Q00130 makes possible to approve conditionally	
			E371, E376, E377, E378, E379, E381 E382, E383, E384, E385, E386 Rev 0							
			E301, E302, E303, E304, E305, E306, E307, E308, E310, E311 E312, E313, E315, E317, E329, E330, E331, E332, E333, E335 E337, E341, E342, E343, Rev. 0							
			E350, E351, E352, E353, E360, E362, E363 E364, E370, E374, E375 Rev. 1 dated 8/23 E314, E320, E327, E328, E370, Rev 2							
			Electrical Design Criteria: 4 Drawings (spec sheets) SD-E-004-GEN-001 Legend SD-E-004-GEN-002 Duct Bank SD-E-004-GEN-003 Notes							
ELEC-1	5004 (5003)	000121		12/27/02 01/20/03	To Checker 1/10/02 01/30/03	05/12/03	ES	Accepted	Accepted for Info Only comments provided	
ELEC-1	5003	000130	Underground Conduit and Duct Banks: 1 Letter, 1 Spec, 3 Reports Letter Response to CBO comments of 12/17/02. Specification 16118 Manhole and Ducts Cable Schedule Raceway Report Cable Length Report	10/15/02 02/05/03 01/30/03	To Checker 01/30/03	05/13/03	ES	Accepted Verbally	Responded to Specs with Comments Need Formal Response	
ELEC-1	5003	000170	Manhole Rollout Details: 6 Drawings	5/16/03 5/30/03	05/19/03	06/11/03	ES	Approved	6	
ELEC-1	5003	000169	E374 Electrical Manhole Rollout Details Sh 1 E375 Electrical Manhole Rollout Details Sh 2 E376 Electrical Manhole Rollout Details Sh 3 E377 Electrical Manhole Rollout Details Sh 4 E378 Electrical Manhole Rollout Details Sh 5 E379 Electrical Manhole Rollout Details Sh 6 Embedded Conduit & Duct Banks: 74 Drawings	5/14/03 5/28/03	05/29/03	06/11/03	ES	Approved	6	
ELEC-1	5003	000169	E300 U/G Conduit Drawing Layout E301 U/G Conduit Overall Site Plan E302 U/G Conduit Plan Unit 1 Step-Up XFMR area E303 U/G Conduit Plan Unit 1 Step-Up XFMR area E304 U/G Conduit Plan Unit 2 Step-Up XFMR area E306 U/G Conduit Plan CTG Unit 1 Area E307 U/G Conduit Plan Unit 1 & 2 North Access Area E308 U/G Conduit Plan CTG Unit 2 Area E310 U/G Conduit Plan CTG Unit 1 Area E311 U/G Conduit Plan Unit 1 & 2 North Access Area E312 U/G Conduit Plan CTG Unit 2 Area E313 U/G Conduit Plan Steam Turbine Area E314 U/G Conduit Plan CTG Unit 1 Area E315 U/G Conduit Plan Unit 1 & 2 North Access Area E316 U/G Conduit Plan CTG Unit 2 Area E317 U/G Conduit Plan Steam Turbine Area E318 U/G Conduit Plan HRSG Unit 1 Area E319 U/G Conduit Plan East Pipeack Area E320 U/G Conduit Plan HRSG Unit 2 Area E321 U/G Conduit Plan Steam Turbine Area						74	

**WILLDAN CBO PROJECT NO. 13254**  
**Review / Approval Dates**

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates			Plan Checker	Status	Comments	Documents	Submit Respond
				Issued Due	To Checker	From Checker					
			E322 U/G Conduit Plan HRSG Unit 1 Area								
			E323 U/G Conduit Plan East Pierack Area								
			E324 U/G Conduit Plan HRSG Unit 2 Area								
			E325 U/G Conduit Plan Steam Turbine Area								
			E326 U/G Conduit Plan CTG Unit 1 Area								
			E327 U/G Conduit Plan CTG Unit 1 Area								
			E328 U/G Conduit Plan HRSG Unit 2 Area								
			E329 U/G Conduit Plan East Pierack Area								
			E330 U/G Conduit Plan HRSG Unit 1 CEMS Area								
			E331 U/G Conduit Plan HRSG Unit 2 CEMS Area								
			E332 U/G Conduit Plan HRSG Unit 2 CEMS Area								
			E333 U/G Conduit Plan Water Treatment Area								
			E335 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E336 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E337 U/G Conduit Plan Water Treatment Area								
			E339 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E340 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E341 U/G Conduit Plan Cooling Tower Area								
			E342 U/G Conduit Plan Cooling Tower Area								
			E343 U/G Conduit Plan Switchyard Area								
			E344 U/G Conduit Plan Water Treatment Area								
			E345 U/G Conduit Plan Water Treatment Area								
			E346 U/G Conduit Plan Water Treatment Area								
			E347 U/G Conduit Plan Water Treatment Area								
			E348 U/G Conduit Plan Water Treatment Area								
			E349 U/G Conduit Plan Water Treatment Area								
			E350 CTG Unit 1 Embedded Conduit Plan - Sh 1								
			E351 CTG Unit 1 Embedded Conduit Plan - Sh 2								
			E352 CTG Unit 1 Embedded Conduit Plan - Sh 3								
			E353 CTG Unit 1 Embedded Conduit Sections - Sh 1								
			E354 CTG Unit 1 Embedded Conduit Sections - Sh 2								
			E355 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E356 U/G Conduit Plan Admin/Ctl Rm/Warehouse Area								
			E357 Cooling Tower Area								
			E358 Units 1 & 2 Step Up XFM/R Area								
			E360 CTG Unit 2 Embedded Conduit Plan - Sh 1								
			E361 CTG Unit 2 Embedded Conduit Plan - Sh 2								
			E362 CTG Unit 2 Embedded Conduit Plan - Sh 3								
			E363 CTG Unit 2 Embedded Conduit Plan - Sh 1								
			E364 CTG Unit 2 Embedded Conduit Sections - Sh 2								
			E365 U/G Conduit Plan Unit 1 PDC Area								
			E366 U/G Conduit Plan Unit 2 PDC Area								
			E367 U/G Conduit Plan PDC - 5 Cooling Tower Area								
			E370 Duct Bank Installation Details								
			E371 Manhole Installation Details								
			E381 Duct Bank Sections - Sh 1								
			E382 Duct Bank Sections - Sh 2								
			E383 Duct Bank Sections - Sh 3								
			E384 Duct Bank Sections - Sh 4								
			E385 Duct Bank Sections - Sh 5								

## WILL DAN CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review / Approval Dates				Comments	Documents
				Issued Due	To Checker	From Checker	Reply		
			E386 Duct Bank Sections - Sh 6						
			E387 Duct Bank Sections - Sh 7						
			E388 Duct Bank Sections - Sh 8						
ELEC-1	5003	000171	STG Operating Floor & Pedestal Embedded Conduit:	5/19/03 6/02/03	05/22/03 05/29/03	06/11/03	ES	Approved	
			E368 STG OP FLR Embedded Conduit Plan Sh 1						
			E369 STG OP FLR Embedded Conduit Plan Sh 2						
ELEC-1	3038		PDCs: 8 Drawings:	99/25/02 10/09/02	02/11/03	02/12/03	ES	Approved Not Stamped	Bart to Finish Disposition
			Dwg# E900-R1 Layout						
			E902-R1 CTG Unit 1						
			E903-R1 CTG Unit 2						
			E904-R1 HRSG Unit 1						
			E905-R1 HRSG Unit 2						
			E906-R1 Cooling Tower Unit 1						
			E907-R0 Water Treatment Area						

CHAP. VI.—THE DOCUMENTS.

WILLDAN CBO PROJECT NO. 13254

MELIAN CBO PROJECT I.D. 15234							
Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates			
				Issued Due	To Checker	From Checker	Plan Checker
ELEC-1	5004	000099	EE14-R0 Bus Layout				
			Voltage Calcs: Calcs 02484-001-07-002 Load Flow and Voltage Drop, Rev. 0 Calcs 02484-001-07-003 Short Circuit, Rev. 0	11/8/02 11/29/02	1/13/03	4/30/2003	05/13/03
ELEC-1	5005	000000	Temporary Power: Drive# E0.01 Single Line Diagram - Rosendin Electric	02/21/03	03/04/03	03/06/03	Approved
			Lighting Plans: 32 Drawings	03/17/03	04/09/03	04/29/03	not approved
ELEC-1	5005	000147	Calculation #2484-001-07-008 Light & Power Density				
			E146, Panel Schedules CTG Unit #1				
			E147, Panel Schedules CTG Unit #2				
			E148, Panel Schedules CEM/HRSSG Unit #1				
			E149, Panel Schedules GEM/HRSSG Unit #2				
			E150, Panel Schedules Cooling Tower				
			E152, Panel Schedules BOP Electrical/Control				
			E600, Electrical Lighting Drawing Layout				
			E601, Electrical Lighting Plant Roadway Lighting				
			E602, Electrical Lighting STG BLD GND Sh1				
			E603, Electrical Lighting STG BLD GND Sh2				
			E604, Electrical Lighting STG BLD GND Sh3				
			E605, Electrical Lighting STG BLD MEZZ Sh1				
			E606, Electrical Lighting STG BLD MEZZ Sh2				
			E607, Electrical Lighting STG BLD MEZZ Sh3				
			E608, Electrical Lighting STG BLD MEZZ Sh3				
			E609, Electrical Lighting STG BLD Operating Sh1				
			E610, Electrical Lighting STG BLD Operating Sh2				
			E611, Electrical Lighting Cooling Tower				
			E612, Electrical Lighting CTC Unit #1 Plan View				
			E613, Electrical Lighting CTG Unit #2 Plan View				
			E614, Electrical Lighting HRSG Unit # Plan View				
			E615, Electrical Lighting HRSG Unit # East Elvat				
			E616, Electrical Lighting HRSG Unit # West Elvat				
			E617, Electrical Lighting HRSG Unit #2 Plan View				
			E618, Electrical Lighting HRSG Unit # East Elvat				
			E619, Electrical Lighting HRSG Unit #2 West Elvat				
			E620, Electrical Lighting Pipe Rack & Walkways				
			E651, Lighting Details & Fixture Schedule				
			E652, Lighting Control Diagram PDC-1, 2, 3				
			E653, Lighting Control Diagram PDC-3				
			E654, Lighting Control Diagram PDC-4				
			E655, Lighting Control Diagram STG BLD Electrical room				
			A - Approved				
			I - Accepted as information only				
			N - Not approved, returned with comments.				
			C - Approval Conditioned upon submittal of addt. info or replacement				
			P - Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CBO.				Total: 269
			D - Discussion required between CBO, Engineer, Geotech, Inspector or other party				Total: 277
			H - On hold by Manager/Supervisor				
			R - Reversal of approval pending resolutions from outside agencies				

**NETS AND DOCUMENTS SUBMITTAL RECORD**  
**CALPINE BAR AND CBO**

**WILLDAN CBO PROJECT NO. 13254**

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments	Submit	Documents Responded
				Issued Due	To Checker	From Checker	Plan Checker			
STRUCT-1	7001	Calpine Transmittal 00249	Switchyard Structure: 1 Calc, 1 Drawing: Power Engineers Inc. Calculation# I50312-01 Drawing# C02-1 Rev B	03/28/03	05/01/03		GJ	Piles are Approved via email. Comments require further action	2	0
TSE	7002	Calpine Transmittal 00274	Switchyard Plans: 55 Drawings: C01 Foundation Plan EP02 Electrical Assembly Plan EP03-1 Electrical Elevations Sh 1 EP03-2 Electrical Elevations Sh 2 EP04 Fence & Grounding Plan EP05 Fence & Grounding Details EP10-1 Electrical Material List Sh 1 of 2 EP11 Assembly & Crf Bldng Nameplate schedule E01 One-Line Diagram E02-1 Relay One-Line Diagram Sh 1 E02-2 Relay One-Line Diagram Sh 2 E03 Three-Line Diagram E04 Three-Line Diagram Circuit Breaker 242 E05 Three-Line Diagram Circuit Breaker 442 E06 Three-Line Diagram Circuit Breaker 232 E07 Three-Line Diagram Circuit Breaker 332 E08 Three-Line Diagram Circuit Breaker 432 E09 Three-Line Diagram 230kV Bus 1 & 2 E10 Station Service AC Panel Schematic E11 Station Service DC Panel Schematic E12 01-03-GSU-XF-301XFMR Differ Relay Schematic E13 Tmai Differ & CB 242 BKR Failure Relay Schematic E14 CB 442 Breaker Failure Relay Schematic E15 01-01-GSU-XF-101 XFMR Differ Relay Schematic E16 Tmai Differ & CB 232 BKR Failure Relay Schematic E17 CB 332 Breaker Failure Relay Schematic E18 01-02-GSU-XF-201 XFMR Differ Relay Schematic E19 Tmai Differ & CB 432 BKR Failure Relay Schematic E20-1 Annunciator Win Layout & Engraving E20-2 Annunciator Schematic Sh 2	03/28/03	05/01/03		ES		65	
TSE	7002									
TSE	7002									
TSE	7002									

**METHODS DOCUMENT SUBMITTAL RECORD**  
CALPINE, B&V AND CBO

WILLIAMS CBO PROJECT NO. 13254

Cond.	Pack. No.	CBO No.	Package Title	Review/Approval Dates				Comments	Documents	
				Issued Due	To Checker	From Response	Plan Checker		Submit	Respond
TSE	7002		E21-1 Breaker 242 Trip Cir #1 Schematic							
			E21-2 Breaker 242 Trip Cir #2 Schematic							
			E21-3 Breaker 242 Close Cir Schematic							
			E21-4 Breaker 242 Alarm & AUX Schematic							
			E21-5 Breaker 242 Motor, Heater & Receptacle Cir Sch							
			E22-1 Breaker 442 Trip Cir #1 Schematic							
			E22-2 Breaker 442 Trip Cir #2 Schematic							
			E22-3 Breaker 442 Close Cir Schematic							
			E22-4 Breaker 442 Alarm & AUX Schematic							
			E22-5 Breaker 442 Motor, Heater & Receptacle Cir Sch							
TSE	7002	Calpine Transmittal 00274	E23-1 Breaker 232 Trip Cir #1 Schematic							
			E23-2 Breaker 232 Trip Cir #2 Schematic							
			E23-3 Breaker 232 Close Cir Schematic							
			E23-4 Breaker 232 Alarm & AUX Schematic							
			E23-5 Breaker 232 Motor, Heater & Receptacle Cir Sch							
			E24-1 Breaker 332 Trip Cir #1 Schematic							
			E24-2 Breaker 332 Trip Cir #2 Schematic							
			E24-3 Breaker 332 Close Cir Schematic							
			E24-4 Breaker 332 Alarm & AUX Schematic							
			E24-5 Breaker 332 Motor, Heater & Receptacle Cir Sch							
TSE	7002		E25-1 Breaker 432 Trip Cir #1 Schematic							
			E25-2 Breaker 432 Trip Cir #2 Schematic							
			E25-3 Breaker 432 Close Cir Schematic							
			E25-4 Breaker 432 Alarm & AUX Schematic							
			E25-5 Breaker 432 Motor, Heater & Receptacle Cir Sch							
			E26-1 MOD 247 Trip & Close Cir Schematic Sh 1							
			E26-2 MOD 247 Heater & AUX Cir Schematic Sh 2							
			E29-1 Switchboard Panel Assembly Sh 1 of 2							
			E29-2 Switchboard Panel Assembly Sh 2 of 2							
			E30 Switchboard Panel Assembly Material List							
TSE	7002		E31-1 Switchboard Panel Asmbly Nameplate Sched Sh 1							
			E31-2 Switchboard Panel Asmbly Nameplate Sched Sh 2							

**Status Codes**

- A - Approved  
I - Accepted as for Information only  
N - Not approved, returned with comments.  
C - Approval Conditioned upon submittal of add'l. info. or replacement

- P - Approved upon sign-off by Engineer, Inspector or Geotech, or other Third Party indicated by CBO.  
D - Discussion pending between CBO, Engineer, Geotech, Inspector or other party  
H - On hold by Mortenson/Calpine  
R - Reversal of approval pending resolutions from outside agencies.

Total: Total:

65

0